CONNECTICUT GROUND WATER SURVEY

A PROJECT OF THE WORKS PROGRESS ADMINISTRATION

THE SALINITY OF THE CONNECTICUT RIVER

OCTOBER 1, 1934 TO SEPTEMBER 30, 1937

BULLETIN S-1

PART III

ISSUED BY THE

WORKS PROGRESS ADMINISTRATION FOR CONNECTICUT

OFFICIAL PROJECT 665-15-3-116

IN COOPERATION WITH THE

CONNECTICUT STATE WATER COMMISSION, SPONSOR

PREPARED UNDER DIRECTION OF THE

GEOLOGICAL SURVEY

UNITED STATES DEPARTMENT OF THE INTERIOR

HARTFORD, CONNECTICUT

OCTOBER - - 1938

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Connecticut Ground Water Survey

A Project of the Works Progress Administration

The Salinity of the Connecticut River

October 1, 1934 to September 30, 1937

Bulletin S-1

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Works Progress Administration for Connecticut
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Prepared under direction of the
Geological Survey
United States Department of the Interior

Hartford, Connecticut
October, 1938

Part III

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The Salinity of the Connecticut River October 1, 1934 to September 30, 1937

Part III

INTRODUCTION

Sampling has been carried on almost continuously by the Connecticut Ground Water Survey since the start of work October 1, 1934 up to the present time at Saybrook Highway bridge. The tabulations of the results of chloride tests are presented in Parts II and III of the report of the tidal salinity study. The results are presented in full for the period October 1, 1934 to September 30, 1937 and are referred to in the discussion in Part I from time to time.

The Connecticut Ground Water Survey, operated as Works Progress Administration Official Project 665-15-3-116, is sponsored by the Connecticut State Water Commission, which has directed its activities since the inception of the project. Under a cooperative agreement, technical direction of the work was furnished by the Geological Survey, U. S. Department of the Interior. The Ground Water Survey, started by the Connecticut State Emergency Relief Commission on October 1, 1934 as a Federal Emergency Relief Administration project, has been operated since November 22, 1935 by the Division of Women's and Professional Projects of the Works Progress Administration for Connecticut, as Official Projects 65-15-861, 465-15-3-26 and 665-15-3-116. The Connecticut State Planning Board in cooperation with the State Water Commission, sponsored the project until July 1, 1937, when sponsorship was assumed by the State Water Commission. William H. Brothwell, Project Supervisor for the Works Progress Administration, also supervised the earlier work performed under the State Emergency Relief Commission; and has been in charge of the Sponsor's program throughout.

The salinity studies were planned and carried out under the technical direction of Mr. C. S. Howard of the Geological Survey, United States Department of the Interior. Mr. William H. Brothwell was in charge of personnel and facilities, and coordinated the various parts of the work. The engineering staff of the State Water Commission assisted in transporting the samples and in other phases of the work. The field work of collecting samples was successively under the direct supervision of Mr. Robert M. Robertson, Mr. Edwin J. Greene and Mr. Fred W. Carter. The chloride determinations were made at the Hall Chemistry Laboratory of Wesleyan University under the direct supervision of Mr. Arthur McDonald, with Dr. C. R. Hoover of the University acting in an advisory capacity. The tabulations presented in Parts II and III were drawn up under the direct supervision of Mr. Frank B. Rau. The preparation of this report has been under the supervision of Mr. Russell M. Logie, who has also assisted the Federal Geological Survey in supervising the technical details of the field work. Stencilling, reproduction and assembly of the report were in charge of Mr. Winthrop E. Danielson.

Table 7 Tide cycle: one hour before to low tide.

Parts per million

Date	Position	Stations				
		8	9	10	11	12
1934						
Oct. 5	Surface	1,720	1,814			
2:05PM	Mid-depth	2,630	2,130			
	Bottom	13,900	2,190			
Oct. 17	Surface	575	725	700	875	1,175
12:10PM	Mid-depth	1,350	800	740	940	1,350
	Bottom	13,750	800	1,200	2,250	1,950
Oct. 18	Surface	875	1,225	1,075	1,270	1,940
12:15PM	Mid-depth	1,130	1,200	1,420	1,630	2,200
	Bottom	12,900	1,220	1,560	3,750	2,080
Oct. 27	Surface	145	21	19	62	267
7:05AM	Mid-depth	110	18	20	95	267
	Bottom	600	22	22	200	290
Oct. 28	Surface	1,050	1,250	1,350	1,400	2,100
8:50AM	Mid-depth	2,650	1,300	1,550	1,800	2,300
	Bottom	14,900	1,310	1,900	5,000	2,250
Oct. 29	Surface	135	40	25	27	200
8:45AM	Mid-depth	7,750	75	70	365	290
	Bottom	15,300	13,050	710	14,150	195
Nov. 5	Surface	580	880	760	1,000	1,500
2:50PM	Mid-depth	1,560	970	1,000	2,150	1,500
	Bottom	3,050	1,700	1,050	3,350	1,900
Nov. 16	Surface	440	520	520	504	790
12:35PM	Mid-depth	810	590	1,140	680	1,020
	Bottom	1,450	600	1,220	1,280	1,200
Nov. 19	Surface	1,820	2,500	2,690	3,250	3,650
2:15PM	Mid-depth	2,600	2,700	2,800	3,650	4,200
	Bottom	4,050	2,700	3,550	7,300	4,550
Dec. 3, 4, - Samples from all depths - Maximum 16.						
Dec. 17	Surface	1,650	1,750	1,850	2,100	2,650
2:25PM	Mid-depth	2,200	1,900	2,400	2,650	2,700
	Bottom	14,000	1,900	3,000	4,950	2,900
Dec. 18	Surface	2,350	2,700	2,850	3,250	3,450
2:30PM	Mid-depth	2,550	2,850	2,950	3,400	
	Bottom	13,900	2,850	4,150	6,850	3,800

Table 7 (continued) Tide cycle: one hour before to low tide.

Parts per million

Date	Position	Stations				
		8	9	10	11	12
1934						
Dec. 31 1:05PM	Surface	1,970	1,510	1,510	1,320	1,250
	Mid-depth	2,000	1,750	1,650	1,350	6,950
	Bottom	2,000	13,350	2,650	3,000	14,600
1935						
Jan. 2 2:20PM	Surface	41	38	55	83	114
	Mid-depth	116	39	55	89	119
	Bottom	4,350	39	55	95	161
Jan. 14, 15, 16, - Samples from all depths - Maximum 16.						
Jan. 29 11:50AM	Surface				480	
	Mid-depth				550	
	Bottom				1,200	
Jan. 31 2:15PM	Surface				580	
	Mid-depth				760	
	Bottom				1,900	
Feb. 1 2:10PM	Surface		910	920	580	650
	Mid-depth		1,140	900	660	
	Bottom		1,130	940	1,020	760
Feb. 12 12:00AM	Surface	480	470	400	670	570
	Mid-depth	1,290	1,620	1,110	810	1,270
	Bottom	10,250	2,150	1,300	4,300	1,900
Feb. 14 2:20PM	Surface	620	610	530	790	820
	Mid-depth	2,050	1,800	530	1,650	1,400
	Bottom	11,150	1,950	1,170	2,600	1,900
Feb. 15 2:30PM	Surface	460	580	620	430	530
	Mid-depth	900	670	600	500	640
	Bottom	13,200	710	640	1,400	690
Feb. 27 12:05PM	Surface	420	530	510	670	870
	Mid-depth	560	545	510	740	885
	Bottom	1,450	560	520	1,410	900
Feb. 28 12:50PM	Surface	102	11	11	10	19
	Mid-depth	125	10	9	12	19
	Bottom	155	10	10	19	24

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million — Stations 8	9	10	11	12
1935						
Mar. 13, 15, 16, 29, 31, Apr. 1, - Samples from all depths - Maximum 9.						
Apr. 11 (a) 10:45AM	Surface	600				
	Mid-depth	1,300				
	Bottom	13,700				
(a) 11:00AM	Surface	540				
	Mid-depth	1,250				
	Bottom	13,800				
(a) 11:15AM	Surface	590				
	Mid-depth	1,100				
	Bottom	14,000				
(a) 11:30AM	Surface	550				
	Mid-depth	950				
	Bottom	13,900				
Apr. 12 12:15PM	Surface	54	8		8	9
	Mid-depth	47	11		11	10
	Bottom	89	9		11	8
Apr. 14, 15, 27, 29, May 12, 13, 14, - Samples from all depths - Maximum 12.						
May 15 1:15PM	Surface	5	4-		6	6
	Mid-depth	6	4		8	6
	Bottom	11,850	5		12	6
May 26 (a) 11:08AM	Surface	510	530		380	
	Mid-depth	675	610		495	
	Bottom	8,400	615		990	
(a) 11:08PM	Surface	1,440	1,870			
	Mid-depth	1,650	1,900			
	Bottom	7,350	3,650			
May 27 (a) 12:08AM	Surface	1,040	920		1,030	
	Mid-depth	1,050	950		1,650	
	Bottom	2,950	950		2,100	
(a) 12:08PM	Surface	730	1,010		1,050	
	Mid-depth	1,050	1,050		1,200	
	Bottom	9,150	1,050		2,800	

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations				
		8	9	10	11	12
1935						
May 28 (a)	Surface	700	1,450			
12:08AM	Mid-depth	2,000	2,050			
	Bottom	3,100	2,050			
(a)	Surface		950		1,070	
1:08AM	Mid-depth		1,050		1,550	
	Bottom		1,050		2,150	
(a)	Surface	700	1,030		1,040	1,450
12:05PM	Mid-depth	1,700	1,000		1,215	1,650
	Bottom	11,600	1,100		5,400	2,000
May 29	Surface	480	750		740	
1:08PM	Mid-depth	1,250	800		850	
	Bottom	14,600	800		14,050	
June 9	Surface	530	660		680	
10:50AM	Mid-depth	1,550	950		850	
	Bottom	14,050	1,000		7,900	
June 10	Surface	1,240	1,200		1,370	
11:08AM	Mid-depth	12,800	1,700		1,550	
	Bottom	14,550	1,800		11,800	
June 11	Surface	190	280		240	
11:33AM	Mid-depth	690	310		320	
	Bottom	13,850	310		3,150	
June 13	Surface	130	45		16	
12:55PM	Mid-depth	540	150		114	
	Bottom	13,600	170		1,210	
June 21	Surface		6			
8:29AM	Mid-depth		7			
	Bottom		8			
June 24	Surface	13	7		7	
11:03AM	Mid-depth	7	6		8	
	Bottom	9	7		9	
June 27	Surface	31	6		9	
12:55PM	Mid-depth	92	9		11	
	Bottom	5,000	19		15	

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
July 6 8:35AM	Surface	1,350	1,600			
	Mid-depth	1,700	1,600			
	Bottom	3,150	1,600			
July 9 11:05AM	Surface	73	8		9	
	Mid-depth	107	10		11	
	Bottom	143	9		11	
July 10 11:05AM	Surface	45	6		7	
	Mid-depth	50	8		7	
	Bottom	78	8		8	
July 12 12:45PM	Surface	73	11		9	
	Mid-depth	200	19		11	
	Bottom	12,250	81		17	
July 25 11:05AM	Surface	1,290	1,270		1,420	
	Mid-depth	1,600	1,650		1,500	
	Bottom	7,800	1,750		1,900	
July 30 4:08PM	Surface	2,750	2,850		2,800	
	Mid-depth		2,900		4,200	
	Bottom	11,150	3,050		6,900	
July 31 5:08AM	Surface	2,400	2,800		2,900	
	Mid-depth	3,300	2,700		3,400	
	Bottom	10,000	2,850		6,100	
Aug. 8 11:00AM	Surface	1,800	1,350		1,850	
	Mid-depth	9,200	2,750		4,300	
	Bottom	10,050	3,700		12,500	
Aug. 9 10:50AM	Surface	2,800	1,700		2,800	
	Mid-depth	7,400	3,300		6,450	
	Bottom	14,750	4,550		13,750	
Aug. 10 11:03AM	Surface	3,100	2,200		2,800	
	Mid-depth	10,700	5,900		9,900	
	Bottom	14,800	6,600		13,800	
Aug. 11 12:55PM	Surface	2,300	2,900		3,400	
	Mid-depth	4,400	3,500		5,100	
	Bottom	10,600	3,800		8,400	

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Aug. 22	Surface	2,800	2,700		3,000	
10:50AM	Mid-depth	12,600	3,900		4,800	
	Bottom	15,000	4,100		11,500	
Aug. 24	Surface	3,050	2,650		3,900	
12:45PM	Mid-depth	4,250	3,550		7,300	
	Bottom	15,400	3,700		14,400	
Sept. 5	Surface	3,200	3,600		3,300	
10:50AM	Mid-depth	5,800	3,800		4,400	
	Bottom	6,000	5,100		6,150	
Sept. 7	Surface	1,100	800		800	
1:18PM	Mid-depth	13,700	1,900		1,700	
	Bottom	14,800	11,700		12,950	
Sept.17	Surface	4,200	2,900		2,400	
11:05AM	Mid-depth	8,200	4,950		5,350	
	Bottom	13,000	6,700		9,000	
Sept.19	Surface	410	710		580	
11:00AM	Mid-depth	780	620		790	
	Bottom	14,350	1,900		4,250	
Sept.20	Surface	750	650		600	
12:53PM	Mid-depth	6,600	1,200		1,000	
	Bottom	13,850	7,550		11,650	
Sept.21	Surface	2,250	1,600		2,700	
12:53PM	Mid-depth	5,000	2,850		3,500	
	Bottom	14,950	3,350		11,950	
Oct. 7	Surface	5,150	5,250		5,000	
12:03PM	Mid-depth	5,900	5,800		6,500	
	Bottom	11,200	6,050		9,100	
Oct. 9	Surface	2,500	2,900		3,300	
1:48PM	Mid-depth	3,200	3,100		3,900	
	Bottom	11,300	3,000		6,400	
Oct. 10	Surface	3,550				
1:55PM	Mid-depth	3,800				
	Bottom	8,350				

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Oct. 21	Surface	5,100	3,900		4,200	
11:48AM	Mid-depth	10,300	6,100		10,400	
	Bottom	15,700	4,300		14,400	
Oct. 23	Surface	4,000	4,300		4,900	
1:53PM	Mid-depth	5,000	5,100		5,300	
	Bottom	10,000	5,200		4,450	
Nov. 5	Surface		4,000		4,000	
11:58AM	Mid-depth		4,100		4,400	
	Bottom		4,100		6,600	
Nov. 8	Surface	6,000				
1:40PM	Mid-depth	6,950				
	Bottom	6,400				
Nov. 19	Surface	1,000	1,250		1,600	
11:48AM	Mid-depth	2,350	2,050		1,700	
	Bottom	14,350	2,100		11,450	
Nov. 21	Surface				940	
1:45PM	Mid-depth				1,300	
	Bottom				2,950	
Nov. 22	Surface	1,900	3,050		2,000	
1:50PM	Mid-depth	2,050	1,850		2,200	
	Bottom	7,700	1,950		4,400	
Dec. 4	Surface	9	9		25	
11:15AM	Mid-depth	7	11		32	
	Bottom	9	12		34	
Dec. 7	Surface	2,450	2,800		2,900	
2:10PM	Mid-depth	2,800	2,800		4,300	
	Bottom	3,200	2,850		4,050	
Dec. 18	Surface			1,450	1,400	1,950
11:25AM	Mid-depth			1,750	2,250	2,000
	Bottom			1,800	7,500	2,000
Dec. 19	Surface	1,750	2,400	2,450	2,700	2,900
11:35AM	Mid-depth	2,700	2,500	3,200	3,100	3,150
	Bottom	9,150	2,500	3,400	7,850	3,500

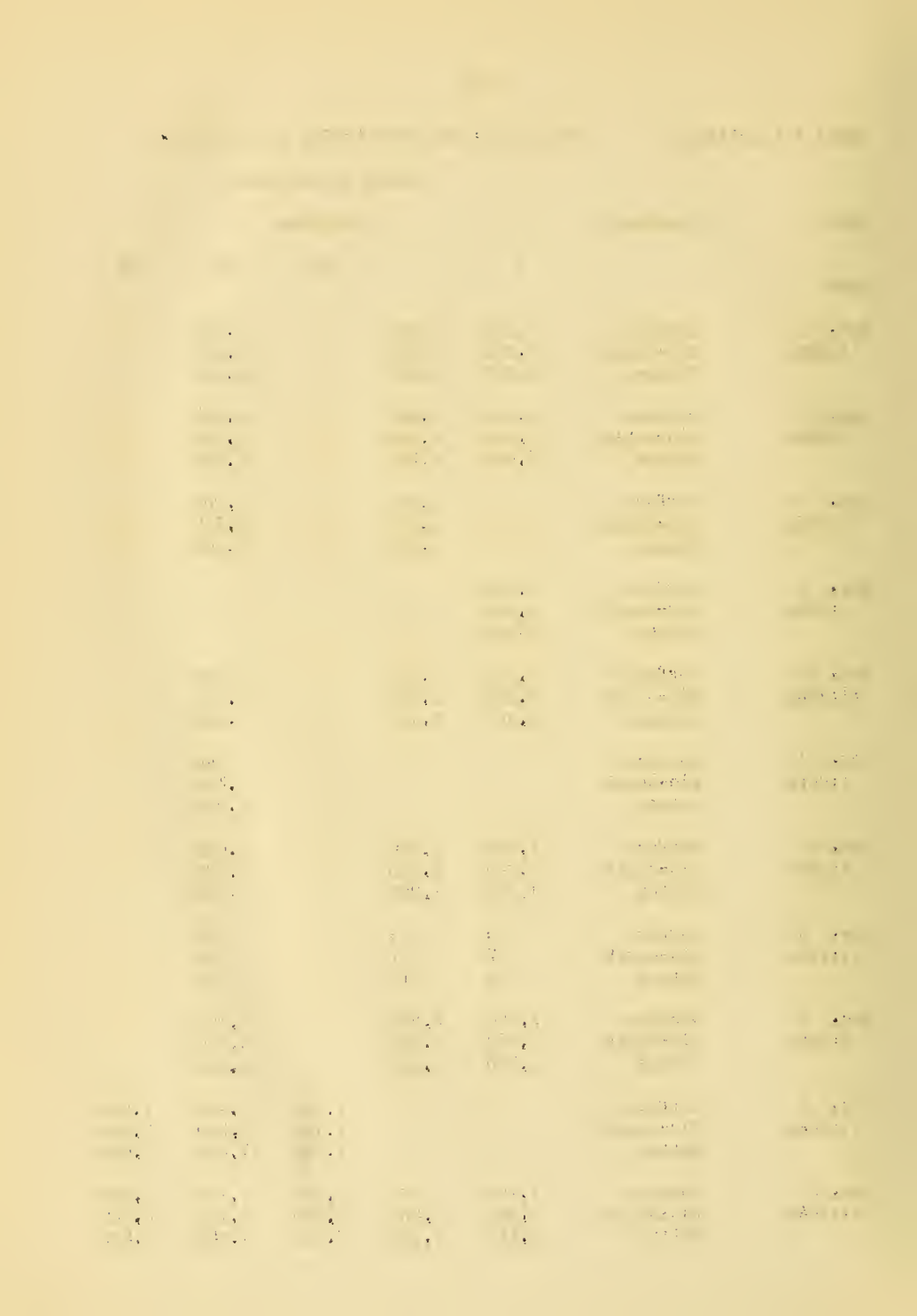

Table 7 (continued) Tide cycle: one hour before to low tide.

Parts per million

Date	Position	Stations				
		8	9	10	11	12
1935						
Dec. 21 2:00PM	Surface					1,500
	Mid-depth					
	Bottom					
Dec. 22 2:15PM	Surface	2,200	1,950	2,850	3,000	4,350
	Mid-depth	7,800	3,250	3,400	5,700	6,000
	Bottom	8,900	3,900	5,350	9,950	5,700
Dec. 23 2:15PM	Surface	6,150	5,700	5,800	7,400	8,250
	Mid-depth	7,650	5,850	9,150	9,650	8,850
	Bottom	8,400	7,050	9,300	10,800	10,600
1936						
Jan. 3 11:15AM	Surface	5,050	6,200	7,050		
	Mid-depth	7,300	6,800	7,050		
	Bottom	7,450	6,800	7,200		
Jan. 5 2:15PM	Surface		700	650	650	700
	Mid-depth		650	750	700	700
	Bottom		650	650	1,000	650
Jan. 13 7:15AM	Surface	11,000	2,000	2,750	7,100	2,750
	Mid-depth	1,700	1,950	2,600	5,900	2,850
	Bottom	1,450	1,950	2,100	2,750	2,900
Jan. 14 8:15AM	Surface	82	15	19	34	94
	Mid-depth	69	15	19	44	98
	Bottom	310	16	19	57	110
Jan. 15 9:25AM	Surface	850	1,000	1,050	1,150	1,450
	Mid-depth	1,100	1,100	1,250	1,250	1,500
	Bottom	9,400	1,150	1,450	6,350	1,650
Jan. 16 9:55AM	Surface	430	430	490	650	810
	Mid-depth	550	420	530	700	900
	Bottom	630	440	530	1,020	950
Jan. 17 11:10AM	Surface	17	11	10	14	24
	Mid-depth	42	10	16	12	20
	Bottom	38	13	12	13	45

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
Jan. 18	Surface	138	100	93	141	240
11:50AM	Mid-depth	150	109	91	200	220
	Bottom	210	110	100	520	240
Jan. 19	Surface	800	700	650	850	800
1:00PM	Mid-depth	800	700	700	1,350	900
	Bottom	900	750	700	1,350	900
Jan. 29	Surface	940				
8:15AM	Mid-depth	1,850				
	Bottom	1,800				
Jan. 31	Surface	1,800				
10:15AM	Mid-depth	2,800				
	Bottom	3,600				
Feb. 1	Surface	1,150				
11:25AM	Mid-depth	1,450				
	Bottom	2,350				
Feb. 2	Surface	850				
12:00AM	Mid-depth	1,200				
	Bottom	1,400				
Feb. 14	Surface	2,550	3,250	2,500		
9:10AM	Mid-depth	7,850	3,200	3,050		
	Bottom	11,800	3,350	3,150		
Feb. 15 (a)	Surface	2,600	2,400	2,000		
9:55AM	Mid-depth	5,400	4,000	2,350		
	Bottom	7,100	4,450	3,000		
(a)	Surface	1,850				
10:20AM	Mid-depth	4,150				
	Bottom	7,700				
Feb. 17	Surface	3,050	3,200			
11:39AM	Mid-depth	6,000	6,000			
	Bottom	7,000	6,600			
Feb. 18	Surface	3,200	3,900	3,000		
12:50PM	Mid-depth	6,500	3,900	5,050		
	Bottom	7,050	6,600	5,100		

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
Feb. 19	Surface	700	650	750		
1:30PM	Mid-depth	2,100	700	800		
	Bottom	5,450	2,050	750		
Feb. 28	Surface	1,200	1,200			
8:25AM	Mid-depth	1,300	1,200			
	Bottom	1,450	1,250			
Feb. 29	Surface	800	800	800	800	
9:30AM	Mid-depth	1,550	2,500	950	1,600	
	Bottom	2,900	2,650	2,050	5,650	
Mar. 1	Surface	950	1,000			
10:37AM	Mid-depth	2,500	1,050			
	Bottom	2,700	1,900			
Mar. 2	Surface	1,250	1,700			
11:41AM	Mid-depth	5,750	6,100			
	Bottom	6,600	6,800			
Mar. 3	Surface	1,850	1,600	1,800		
12:41PM	Mid-depth	4,500	2,400	2,600		
	Bottom	5,200	4,450	5,700		
Mar. 30, 31, Apr. 2,3, 24, 25, 26, 27, 28, - Samples from all depths - Maximum 12 - Except: Sta. 11, Apr. 28, - B-70.						
Apr. 29	Surface	5	12			
11:20AM	Mid-depth	5	21			
	Bottom	55	600			
May 6, 7, 8, 9, 11, 21, - Samples from all depths - Maximum 9 - Except: Sta. 9, May 21, - B-22.						
May 22	Surface	380	370			
5:05AM	Mid-depth	1,700	2,000			
	Bottom	390	470			
May 28 (a)	Surface	1,290	1,630			
10:05AM	Mid-depth	1,300	1,800			
	Bottom	1,350	8,050			
(a)	Surface	1,290	1,290			
11:05PM	Mid-depth	1,200	1,500			
	Bottom	1,250	2,650			

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations				
		8	9	10	11	12
1936						
June 3	Surface		1,600		2,650	
3:05PM	Mid-depth		1,850		4,500	
	Bottom		2,200		7,500	
June 4	Surface		4,150		2,300	
4:05AM	Mid-depth		5,250		6,650	
	Bottom		6,250		9,350	
June 9 (a)	Surface		4,400		4,750	
7:05AM	Mid-depth		4,200		5,550	
	Bottom		4,750		7,850	
(a)	Surface		5,000		4,950	
7:05PM	Mid-depth		6,200			
	Bottom		9,600		9,800	
June 15	Surface	2,900	3,250	3,450		
12:33PM	Mid-depth	3,100	3,300	3,600		
	Bottom	4,800	3,400	5,900		
June 16	Surface					
1:26PM	Mid-depth	1,850	2,000	2,100		
	Bottom	2,350	2,100	2,900		
June 17	Surface					
2:27PM	Mid-depth	1,900	1,850	1,900		
	Bottom	3,250	1,900	2,550		
June 18	Surface	1,550	1,500	1,500		
3:34PM	Mid-depth	1,600	1,600	1,600		
	Bottom	3,100	1,600	1,950		
Nov. 21	Surface	800	700	1,000	900	1,100
9:40AM	Mid-depth	800	800	1,200	1,000	1,000
	Bottom	3,900	900	1,500	1,500	1,200
Nov. 22	Surface	1,400	1,800	2,200	1,900	4,000
10:40AM	Mid-depth	2,200	2,000	1,800	2,200	2,500
	Bottom	3,500	6,900	1,900	5,750	2,750
Nov. 23	Surface	1,050	1,000	1,000	1,150	1,500
11:40AM	Mid-depth	3,100	1,050	1,050	1,500	1,550
	Bottom	4,150	1,100	1,300	2,100	1,600

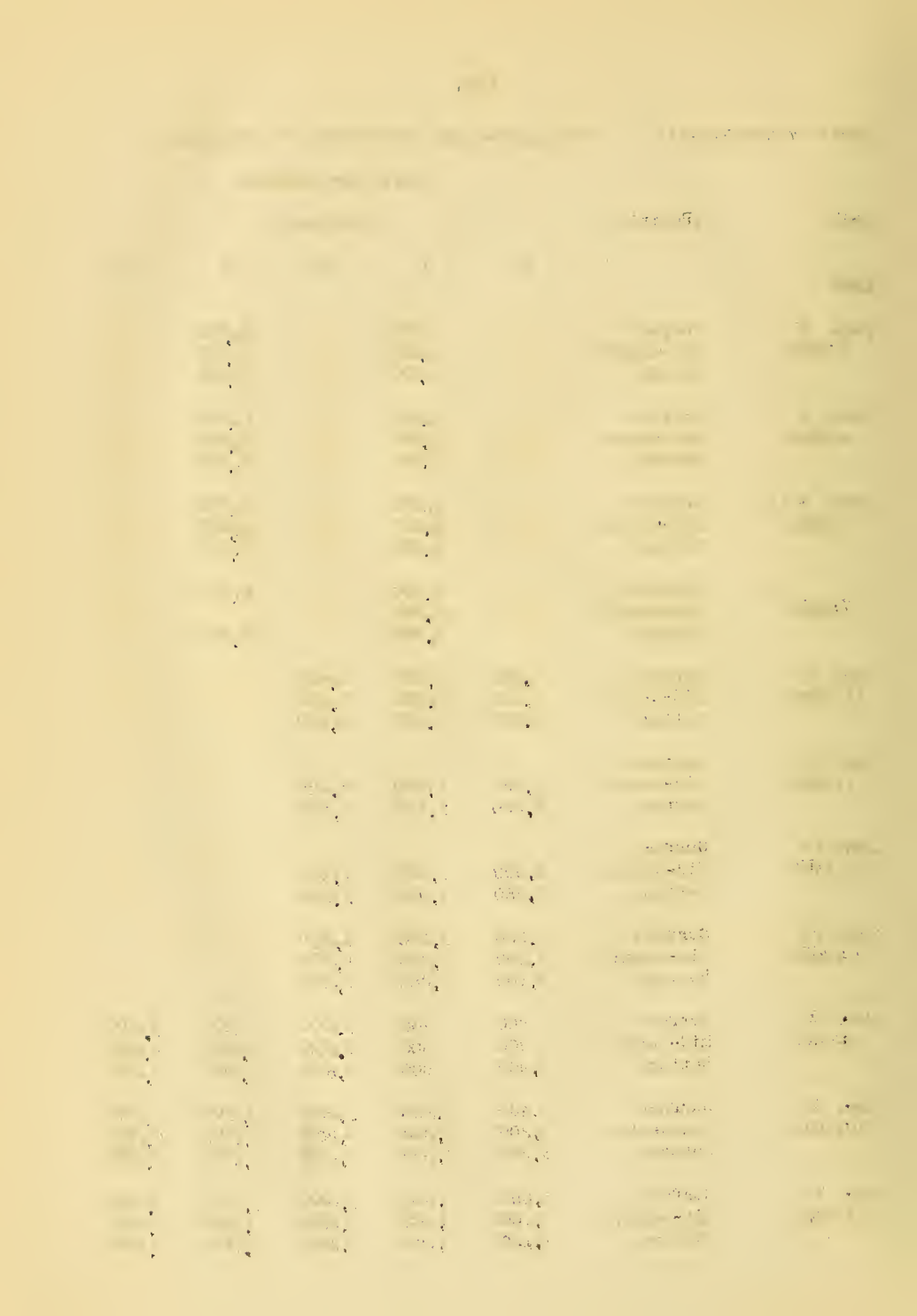

Table 7 (continued) Tide cycle: one hour before to low tide.

Parts per million

Date	Position	Stations				
		8	9	10	11	12
1936						
Dec. 4	Surface	1,700	1,850	1,900	1,850	2,150
8:40AM	Mid-depth	1,750	1,950	2,350	2,250	2,500
	Bottom	1,850	1,950	8,250	3,700	2,800
Dec. 5	Surface	1,300	1,200	1,250	1,350	1,750
9:45AM	Mid-depth	1,250	1,300	1,800	1,400	1,950
	Bottom	1,250	1,350	8,650	3,000	2,800
Dec. 6	Surface	1,950	1,950	2,500	3,150	2,950
10:45AM	Mid-depth	3,950	3,950	3,050	3,350	3,050
	Bottom	9,400	6,300	9,300	10,700	3,900
Dec. 7	Surface	1,850	1,900	1,900	1,800	1,900
11:50AM	Mid-depth	1,850	1,950	1,900	1,900	1,950
	Bottom	1,850	2,000	2,100	2,300	2,000
Dec. 8	Surface	1,250	1,050	1,450	1,300	1,200
12:45PM	Mid-depth	2,500	1,350	1,950	3,400	1,300
	Bottom	10,450	1,500	2,750	8,000	2,000
Dec. 19	Surface	13	8	16	11	44
8:00AM	Mid-depth	10	10	13	14	54
	Bottom					60
Dec. 20	Surface	940	970	870	780	940
8:55AM	Mid-depth	1,600	1,400	1,000	1,050	1,000
	Bottom					1,200

Dec. 21, 22, 23, 24, 1936, Jan. 5, 6, 7, 17, 18, 19, 20, 21, 22, 31, Feb. 1, 2, 1937 - Samples from all depths - Maximum 23.

1937						
Feb. 3	Surface	720	700	820	830	680
10:35AM	Mid-depth	800	700	3,300	3,200	750
	Bottom	750	800	9,600	8,450	850
Feb. 4	Surface	1,700	2,100	2,350	2,250	2,600
11:35AM	Mid-depth	1,850	3,050	3,600	6,850	2,750
	Bottom	2,000	3,200	3,400	8,600	2,800
Feb. 5	Surface	500	680	850	910	980
12:35PM	Mid-depth	900	900	1,000	3,650	1,000
	Bottom	1,350	1,100	1,900	6,050	1,200

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Feb. 6	Surface	1,350	1,100	1,650	1,400	2,000
1:15PM	Mid-depth	3,150	1,350	2,800	4,300	2,050
	Bottom	7,200	1,650	3,600	6,700	2,850
Feb. 8	Surface	4,600	2,350	4,550	4,200	1,800
3:05PM	Mid-depth	12,600	11,300	12,550	10,750	10,250
	Bottom	13,000	12,700	12,900	13,150	12,200
Feb. 16	Surface	9	9	7	9	13
8:15AM	Mid-depth	11	9	5	9	15
	Bottom	9	9	9	23	47
Feb. 17	Surface	33	7	9	8	12
9:20AM	Mid-depth	39	7	11	11	21
	Bottom	17	11	5	11	59
Feb. 18	Surface	9	9	7	43	73
10:15AM	Mid-depth	7	7	7	81	77
	Bottom	9	7	9	81	93
Feb. 19	Surface	5	5	7	7	9
11:30AM	Mid-depth	7	6	6	11	9
	Bottom	7	7	6	10	13
Feb. 20	Surface	11	8	7	8	16
12:25PM	Mid-depth	9	8	7	11	23
	Bottom	25	7	8	11	26
Mar. 3	Surface	340	240	260	300	260
8:55AM	Mid-depth	250	330	260	320	260
	Bottom	340	260	320	360	320
Mar. 4	Surface	420	540	600	460	720
9:50AM	Mid-depth	460	560	620	900	760
	Bottom	440	580	900	5,200	770
Mar. 5	Surface	300	260	320	300	330
10:45AM	Mid-depth	300	330	320	320	340
	Bottom	320	1,160	380	5,300	2,000
Mar. 6	Surface	1,000	1,000	1,200	1,000	1,300
11:40AM	Mid-depth	1,000	1,300	2,000	1,100	1,200
	Bottom	1,200	1,200	6,700	1,300	1,100

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Mar. 7	Surface	280	320	240	340	440
12:35PM	Mid-depth	320	310	250	560	360
	Bottom	300	320	320	1,060	320
Mar. 18	Surface	11	7	9	11	31
9:00AM	Mid-depth	9	7	11	13	41
	Bottom	10	8	9	11	43
Mar. 22	Surface	7	5	6	8	11
1:05PM	Mid-depth	5	7	7	9	11
	Bottom	7	7	9	7	9
Apr. 3	Surface	440	490		430	
10:05AM	Mid-depth	510	540		500	
	Bottom	510	530		560	
Apr. 4	Surface	1,100	1,200		1,200	
10:55AM	Mid-depth	1,200	1,400		1,300	
	Bottom	1,100	1,300		1,400	
Apr. 5	Surface	240	200	240	300	320
11:50AM	Mid-depth	220	240	260	540	300
	Bottom	240	240	340	5,550	360
Apr. 6	Surface	480	410	420	430	470
12:40PM	Mid-depth	480	410	550	450	460
	Bottom	500	430	640	660	530
Apr. 9, 22, 28, May 4, 8, 12-17, 20, 26. Samples from all depths - Maximum 11.						
June 5	Surface	260	200		200	
12:33PM	Mid-depth	200	140		160	
	Bottom	300	180		140	
June 9	Surface	220	180		100	
4:23PM	Mid-depth	240	170		150	
	Bottom	290	190		160	
June 12	Surface	400	840		740	
6:53AM	Mid-depth	780	980		760	
	Bottom	1,100	960		940	

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations				
		8	9	10	11	12
1937						
June 14	Surface	160	160		160	
8:24AM	Mid-depth	260	160		180	
	Bottom	220	160		130	
June 17	Surface	180	220		220	
11:18AM	Mid-depth	180	200		200	
	Bottom	220	200		220	
June 29	Surface	360	400		380	
8:16AM	Mid-depth	620	480		660	
	Bottom	800	500		820	
June 30	Surface	680	800		700	
8:38AM	Mid-depth	1,000	840		800	
	Bottom	740	860		2,080	
July 1 (a)	Surface		440			
9:30AM	Mid-depth		440			
	Bottom		500			
(a)	Surface		480			
9:40AM	Mid-depth		460			
	Bottom		460			
(a)	Surface		480			
9:50AM	Mid-depth		460			
	Bottom		500			
(a)	Surface		460			
10:00AM	Mid-depth		460			
	Bottom		480			
(a)	Surface		380			
10:10AM	Mid-depth		440			
	Bottom		480			
July 12 (a)	Surface		3,600			
7:00AM	Mid-depth		3,700			
	Bottom		3,900			
(a)	Surface		2,800			
7:15AM	Mid-depth		2,800			
	Bottom		3,000			

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 12 (a) 7:30AM	Surface		2,900			
	Mid-depth		3,000			
	Bottom		3,100			
(a) 7:45AM	Surface		2,900			
	Mid-depth		2,900			
	Bottom		3,000			
July 14 (a) 8:30AM	Surface		1,100			
	Mid-depth		1,400			
	Bottom		1,600			
(a) 8:45AM	Surface		750			
	Mid-depth		1,400			
	Bottom		1,500			
(a) 9:00AM	Surface		1,600			
	Mid-depth		1,300			
	Bottom		1,400			
(a) 9:15AM	Surface		900			
	Mid-depth		1,100			
	Bottom		1,100			
(a) 9:30AM	Surface		900			
	Mid-depth		1,300			
	Bottom		1,200			
July 20 (a) 2:00PM	Surface		1,700			
	Mid-depth		4,400			
	Bottom		6,600			
(a) 2:15PM	Surface		1,700			
	Mid-depth		5,000			
	Bottom		6,500			
(a) 2:30PM	Surface		1,700			
	Mid-depth		3,400			
	Bottom		7,300			
July 22 (a) 3:15PM	Surface		1,300			
	Mid-depth		1,700			
	Bottom		2,100			

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 22 (a)	Surface		2,000			
3:30PM	Mid-depth		1,800			
	Bottom		2,000			
(a)	Surface		1,000			
3:45PM	Mid-depth		1,500			
	Bottom		2,000			
(a)	Surface		1,000			
4:00PM	Mid-depth		1,600			
	Bottom		1,800			
July 26 (a)	Surface		4,150			
6:00AM	Mid-depth		4,300			
	Bottom		4,100			
(a)	Surface		3,900			
6:15AM	Mid-depth		4,250			
	Bottom		4,300			
(a)	Surface		3,600			
6:30AM	Mid-depth		3,950			
	Bottom		3,900			
July 27 (a)	Surface		4,700			
6:30AM	Mid-depth		4,800			
	Bottom		4,900			
(a)	Surface		4,100			
6:45AM	Mid-depth		4,200			
	Bottom		4,400			
(a)	Surface		4,100			
7:00AM	Mid-depth		4,200			
	Bottom		4,200			
(a)	Surface		3,800			
7:15AM	Mid-depth		3,850			
	Bottom		3,900			
July 29 (a)	Surface		2,360			
7:45AM	Mid-depth		2,900			
	Bottom		3,000			

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 29 (a) 8:00AM	Surface		2,560			
	Mid-depth		2,600			
	Bottom		2,700			
(a) 8:15AM	Surface		2,480			
	Mid-depth		2,500			
	Bottom		2,500			
(a) 8:30AM	Surface		2,270			
	Mid-depth		2,600			
	Bottom		2,700			
(a) 8:45AM	Surface		1,830			
	Mid-depth		2,000			
	Bottom		2,200			
(a) 8:45PM	Surface		3,850			
	Mid-depth		4,150			
	Bottom		4,200			
(a) 9:00PM	Surface		3,450			
	Mid-depth		3,600			
	Bottom		3,750			
(a) 9:15PM	Surface		3,100			
	Mid-depth		3,300			
	Bottom		3,350			
(a) 9:30PM	Surface		3,150			
	Mid-depth		2,850			
	Bottom		3,300			
July 31 (a) 9:45AM	Surface		2,500			
	Mid-depth		3,000			
	Bottom		6,800			
(a) 10:00AM	Surface		2,900			
	Mid-depth		3,300			
	Bottom		5,000			
(a) 10:15AM	Surface		1,900			
	Mid-depth		3,200			
	Bottom		4,400			

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 31 (a)	Surface		2,200			
10:30AM	Mid-depth		3,300			
	Bottom		3,900			
Aug. 1 (a)	Surface		3,300			
10:45AM	Mid-depth		3,400			
	Bottom		4,000			
(a)	Surface		3,300			
11:00AM	Mid-depth		3,700			
	Bottom		4,200			
(a)	Surface		3,300			
11:15AM	Mid-depth		3,900			
	Bottom		3,800			
(a)	Surface		3,000			
11:30AM	Mid-depth		3,700			
	Bottom		3,700			
Aug. 2 (a)	Surface		3,200			
11:45AM	Mid-depth		3,400			
	Bottom		3,700			
(a)	Surface		3,800			
12:00AM	Mid-depth		4,000			
	Bottom		4,000			
(a)	Surface		3,200			
12:15PM	Mid-depth		3,800			
	Bottom		4,000			
(a)	Surface		3,100			
12:30PM	Mid-depth		3,350			
	Bottom		3,500			
(a)	Surface		3,400			
12:45PM	Mid-depth		3,500			
	Bottom		3,500			
Aug. 3 (a)	Surface		3,300			
12:45PM	Mid-depth					
	Bottom		3,600			

Table 7 (continued) Tide cycle: one hour before to low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Aug. 3 (a) 1:00PM	Surface		3,400			
	Mid-depth		3,700			
	Bottom		3,900			
(a) 1:15PM	Surface		3,400			
	Mid-depth		3,500			
	Bottom		3,800			
(a) 1:30PM	Surface		2,500			
	Mid-depth		2,800			
	Bottom		3,000			
Aug. 5 (a) 2:45PM	Surface		2,300			
	Mid-depth		3,500			
	Bottom		3,200			
(a) 3:00PM	Surface		2,650			
	Mid-depth		2,900			
	Bottom		3,000			
(a) 3:15PM	Surface		2,600			
	Mid-depth		2,900			
	Bottom		2,900			
(a) 3:30PM	Surface		2,100			
	Mid-depth		2,300			
	Bottom		2,450			

Table 8 Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations				
		8	9	10	11	12
1934						
Oct. 4	Surface				539	
2:55PM	Mid-depth				840	
	Bottom				7,580	
Oct. 5	Surface		300	756	840	870
3:40PM	Mid-depth		790	980	1,020	
	Bottom		940	1,390	3,550	1,170
Oct. 19	Surface	1,040	1,140	1,180	1,270	900
2:10PM	Mid-depth	2,000	1,150	1,625	1,925	2,075
	Bottom	12,850	1,250	1,650	4,150	2,150
Oct. 27	Surface	85	19	22	45	90
8:10AM	Mid-depth	130	18	23	50	87
	Bottom	220	21		71	98
Oct. 28	Surface	760	1,830	900	1,000	1,550
9:40AM	Mid-depth	5,500	960	1,000	1,200	1,550
	Bottom	15,100	960	1,250	5,800	1,700
Oct. 29	Surface	120	61	34	32	70
10:45AM	Mid-depth	14,600	165	65	2,300	150
	Bottom	15,550	13,550	12,600	15,600	135
Oct. 31	Surface	820	820	1,500	1,500	1,600
12:05PM	Mid-depth	5,600	1,300	1,450	1,950	1,900
	Bottom	14,300	1,400	2,250	13,950	2,000
Nov. 1	Surface	1,500	1,920	2,050	2,180	2,800
12:50PM	Mid-depth	2,500	1,950	2,270	2,330	2,950
	Bottom	12,000	1,970	2,800	5,850	3,300
Nov. 15	Surface	410	460	460	460	730
12:25PM	Mid-depth	1,100	480	480	450	900
	Bottom	6,700	490	780	1,250	1,050
Nov. 30	Surface	208	151	171	158	370
12:30PM	Mid-depth	310	153	177	196	380
	Bottom	6,700	156	189	425	390
Dec. 14	Surface	93	153	159	177	214
12:30PM	Mid-depth	140	850	161	192	1,200
	Bottom	15,150	850	1,400	5,250	1,300

Table 8 (continued) Tide cycle: low tide to one hour after.

Parts per million

Date	Position	Stations				
		8	9	10	11	12
1935						
Jan. 1	Surface	4,400	4,600	4,800	5,700	6,250
2:20PM	Mid-depth	7,550	5,050	5,100	5,800	7,300
	Bottom	12,450	6,000	6,750	9,550	7,600
Jan. 28	Surface				94	
12:20PM	Mid-depth				109	
	Bottom				260	
Jan. 30	Surface				16	
2:15PM	Mid-depth				27	
	Bottom				47	
Feb. 11	Surface	490	410	550	500	530
12:20PM	Mid-depth	1,180	1,060	740	770	870
	Bottom	7,000	1,150	830	1,550	1,050
Feb. 13	Surface	380	410	440	410	420
2:25PM	Mid-depth	2,000	420	420	1,000	670
	Bottom	14,050	1,120	990	1,960	840
Feb. 26	Surface	450	460	740	640	610
12:05PM	Mid-depth	3,370	620	730	730	690
	Bottom	13,750	690	845	2,150	690

Mar. 1,12, 28, 30, - Samples from all depths - Maximum 15 -
Except: Sta. 8, Mar. 1, - S-24.

Apr. 11 (a)	Surface	810				
11:45AM	Mid-depth	470				
	Bottom	13,900				
(a)	Surface	520				
12:00AM	Mid-depth	740				
	Bottom	14,100				
(a)	Surface	390				
12:15PM	Mid-depth	760				
	Bottom	13,700				
(a)	Surface	440				
12:30PM	Mid-depth	450				
	Bottom	13,600				

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Apr. 11 (a)	Surface	400	420		400	490
12:15PM	Mid-depth	850	400		480	530
	Bottom	3,850	430		650	550
Apr. 13	Surface	7	6		7	8
2:00PM	Mid-depth	13	6		7	7
	Bottom	20	8		9	7
Apr. 26, 28, May 11, 13, - Samples from all depths - Maximum 7.						
May 26	Surface	264	270		220	
12:08PM	Mid-depth	660	360		325	
	Bottom	5,650	370		680	
May 27 (a)	Surface		460			
1:08AM	Mid-depth		450		550	
	Bottom		550		1,400	
(a)	Surface	470	550		530	
1:08PM	Mid-depth	1,370	540		1,100	
	Bottom	570	13,950		2,250	
May 28 (a)	Surface	880				
1:15AM	Mid-depth	900				
	Bottom	1,750				
(a)	Surface		430		510	
2:08AM	Mid-depth		390		900	
	Bottom		410		1,100	
June 8	Surface	300	280		260	
11:05AM	Mid-depth	3,100	340		330	
	Bottom	14,900	370		1,500	
June 12	Surface	49	10		10	
1:08PM	Mid-depth	140	13		11	
	Bottom	13,150	18		36	
June 23	Surface	11	11		7	
10:50AM	Mid-depth	8	7		7	
	Bottom	10	9		10	
June 25	Surface		5			
11:58AM	Mid-depth		6			
	Bottom		7			

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
June 26	Surface	11	7		8	
1:08PM	Mid-depth	10	9			
	Bottom	13	11		10	
July 5	Surface	850	950			
9:35AM	Mid-depth	1,200	1,150			
	Bottom	4,150	1,200			
July 10 (a)	Surface	51	10		9	
12:05AM	Mid-depth	64	9		14	
	Bottom	64	11		12	
(a)	Surface	38	8		10	
1:05AM	Mid-depth	33	9		10	
	Bottom	43	9		11	
(a)	Surface	11	6		7	
12:05PM	Mid-depth	72	7		9	
	Bottom	66	8		10	
July 11	Surface	29	5		8	
1:30PM	Mid-depth	18	7		7	
	Bottom	12	6		9	
July 24	Surface	670	870		980	
11:13AM	Mid-depth	2,880	840		1,070	
	Bottom	13,950	950		5,150	
July 26	Surface	970	1,050		1,050	
12:50PM	Mid-depth	1,300	1,200		1,200	
	Bottom	8,050	1,250		5,600	
July 27	Surface	1,050	1,240		810	
1:23PM	Mid-depth	4,750	1,400		1,900	
	Bottom	14,300	1,550		7,200	
July 30	Surface	2,200	2,300		2,300	
5:08PM	Mid-depth		2,600		4,500	
	Bottom		2,850		6,550	
July 31	Surface	1,700	1,800		1,700	
6:08AM	Mid-depth	2,800	2,000		2,050	
	Bottom	6,950	2,100		3,800	

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Aug. 7	Surface	3,050	2,750		2,650	
11:05AM	Mid-depth	14,700	8,250		6,600	
	Bottom	15,400	10,600		13,250	
Aug. 9	Surface	1,800	1,350		5,450	
12:50PM	Mid-depth	9,850	3,850		4,200	
	Bottom	11,550	7,750		13,850	
Aug. 10	Surface	1,700	1,900		2,500	
1:35PM	Mid-depth	14,500	3,000		4,700	
	Bottom	15,100	3,300		10,700	
Aug. 21	Surface	2,300	3,300		3,050	
11:05AM	Mid-depth	8,950	4,000		4,700	
	Bottom	15,300	3,900		8,650	
Aug. 23	Surface	5,100	2,000		2,400	
12:40PM	Mid-depth	2,300	3,300		3,650	
	Bottom	8,950	3,800		13,100	
Sept. 4	Surface	7,900	6,700		5,900	
11:28AM	Mid-depth	12,800	11,900		11,600	
	Bottom	14,500	12,400		14,400	
Sept.18	Surface	1,600	1,500		1,600	
11:35AM	Mid-depth	8,400	7,300		3,400	
	Bottom	4,100	10,000		9,400	
Sept.19	Surface	570	600		590	
12:50PM	Mid-depth	8,100	5,900		3,600	
	Bottom	13,850	8,300		10,800	
Oct. 6	Surface	1,550	1,200		1,300	
11:58AM	Mid-depth	14,300	2,650		3,050	
	Bottom	15,100	10,950		14,600	
Oct. 8	Surface	4,000	4,200		4,300	
1:48PM	Mid-depth	4,800	4,400		4,900	
	Bottom	7,400	4,700		7,000	
Oct. 19	Surface				1,650	
11:40AM	Mid-depth				3,450	
	Bottom				11,500	

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Oct. 20 11:58AM	Surface	2,750	2,900		3,150	
	Mid-depth	3,400	2,950		3,450	
	Bottom	13,650	3,000		6,300	
Oct. 21 1:40PM	Surface				3,200	
	Mid-depth				7,550	
	Bottom				13,500	
Oct. 22 1:48PM	Surface	4,450	4,900		5,200	
	Mid-depth	5,550	5,350		6,400	
	Bottom	10,300	5,800		8,700	
Nov. 3 9:53AM	Surface		2,550			
	Mid-depth		3,600			
	Bottom		4,450			
Nov. 5 12:05PM	Surface	3,850				
	Mid-depth	4,700				
	Bottom	8,500				
Nov. 6 1:48PM	Surface	1,200	1,250		1,150	
	Mid-depth	2,600	1,400		1,400	
	Bottom	4,450	1,550		2,500	
Nov. 7 2:05PM	Surface	3,100	3,100		3,200	
	Mid-depth	3,850	3,100		3,850	
	Bottom	9,600	3,200		4,900	
Nov. 18 11:48AM	Surface	290	220		220	
	Mid-depth	440	220		240	
	Bottom	750	220		250	
Nov. 20 1:48PM	Surface	520	1,050		560	
	Mid-depth	1,100	540		610	
	Bottom	4,300	600		2,600	
Nov. 21 1:50PM	Surface	750	850			
	Mid-depth	2,550	950			
	Bottom	7,250	900			
Dec. 3 11:20AM	Surface	14	11		9	
	Mid-depth	13	12		14	
	Bottom	14	13		10	

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Dec. 6 2:05PM	Surface	116	12		41	
	Mid-depth	128	18		102	
	Bottom	200	16		112	
Dec. 17 11:30AM	Surface				750	1,000
	Mid-depth				1,000	1,000
	Bottom				12,450	1,100
Dec. 18 11:30AM	Surface	1,200	1,350			
	Mid-depth	7,750	1,400			
	Bottom	7,700	1,500			
Dec. 20 2:15PM	Surface	1,700	1,800	1,950	1,950	2,350
	Mid-depth	2,150	2,000	2,200	2,150	2,400
	Bottom	7,200	2,150	2,650	6,200	2,600
Dec. 21 2:15PM	Surface		1,700	1,400	1,050	
	Mid-depth		4,800		600	
	Bottom		2,950			
1936						
Jan. 1 11:15AM	Surface	2,400	2,800	2,800	2,600	3,600
	Mid-depth	4,900	4,700	4,100	5,900	3,600
	Bottom	10,750	4,750	4,100	6,400	3,900
Jan. 4 2:15PM	Surface	260	260	270	240	460
	Mid-depth	1,100	310	310	580	540
	Bottom	2,400	315	415	710	590
						*12W
Jan. 29 9:00AM	Surface	515				610
	Mid-depth	875				620
	Bottom	1,200				
Jan. 30 10:05AM	Surface	1,400				
	Mid-depth	1,600				
	Bottom	2,300				

*Station 12W is known as "Perrson's Dock" 100 ft. north of Saybrook Highway Bridge, and approximately on line with station 12 on the bridge.

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12W
1936						
Jan. 31	Surface	1,550				1,500
11:10AM	Mid-depth	1,950				1,800
	Bottom	2,600				2,100
Feb. 1	Surface	1,000				700
12:15PM	Mid-depth	1,150				800
	Bottom	1,600				1,100
Feb. 2	Surface	600				410
1:15PM	Mid-depth	650				445
	Bottom	700				465
Feb. 3	Surface	900				1,100
2:10PM	Mid-depth	2,400				1,250
	Bottom	4,900				1,200
Feb. 14	Surface	3,150				2,200
10:10AM	Mid-depth	10,700				3,000
	Bottom	12,000				3,500
Feb. 15	Surface					1,500
11:10AM	Mid-depth					2,450
	Bottom					3,100
Feb. 16 (a)	Surface	1,650				1,350
12:04PM	Mid-depth	2,450				1,550
	Bottom	5,800				2,600
(a)	Surface	1,550	1,250	1,050		
12:25PM	Mid-depth	2,600	1,300	1,250		
	Bottom	5,600	2,700	1,600		

Mar. 29, 30, Apr. 1, 24, 25, 26, 27, 28, May 6, 7, 8, 9, 11, 21, - Samples from all depths - Maximum 53.

May 28 (a)	Surface	730	4,400	
11:05AM	Mid-depth	750	850	
	Bottom	850	850	
(a)	Surface	470	470	
12:05PM	Mid-depth	470	710	
	Bottom	540	1,800	

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
May 29 12:05AM	Surface		610		1,090	
	Mid-depth		700		1,500	
	Bottom		700		3,100	
June 3 4:05PM	Surface		850		600	
	Mid-depth		800		900	
	Bottom		2,400		1,900	
June 4 5:05AM	Surface		2,800		2,000	
	Mid-depth		6,250		6,500	
	Bottom		7,500		8,200	
June 9 (a) 8:05AM	Surface		2,600		2,650	
	Mid-depth		2,750		2,900	
	Bottom		3,350		4,850	
(a) 9:05PM	Surface		2,700		4,000	
	Mid-depth		2,900		4,300	
	Bottom		2,900		7,800	
June 15 1:48PM	Surface		1,750			
	Mid-depth		1,950			
	Bottom		2,850			
June 16 2:50PM	Surface		1,150			
	Mid-depth		1,300			
	Bottom		1,700			
June 17 3:46PM	Surface		600			
	Mid-depth		800			
	Bottom		1,400			
June 18 4:26PM	Surface		1,400			
	Mid-depth		1,500			
	Bottom		1,450			
June 19 5:30PM	Surface		590			
	Mid-depth		600			
	Bottom		580			
June 20 6:10PM	Surface		260			
	Mid-depth		220			
	Bottom		610			

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
July 7	Surface	3,700	3,700		3,900	
7:42AM	Mid-depth	5,200	5,500		4,950	
	Bottom	6,150	6,200		5,200	
July 8	Surface	2,900	2,450		3,100	
8:25AM	Mid-depth	2,950	3,050		3,650	
	Bottom	4,700	3,800		4,150	
July 9	Surface	2,300	1,800		2,650	
9:09AM	Mid-depth	2,650	3,150		3,100	
	Bottom	5,050	4,750		4,150	
July 10	Surface	2,250	2,300		2,900	
10:18AM	Mid-depth	2,650	2,900		3,150	
	Bottom	3,200	3,200		3,450	
July 14	Surface	2,200	2,000		2,150	
1:11PM	Mid-depth	5,500	3,600		3,050	
	Bottom	7,300	7,350		5,350	
July 19	Surface	3,300	3,500		4,000	
5:59AM	Mid-depth	3,800	4,200		4,300	
	Bottom	4,200	3,900		4,200	
Aug. 30	Surface	2,500	2,900		2,900	
3:36PM	Mid-depth	2,600	3,000		3,100	
	Bottom	2,700	3,700		4,300	
Oct. 22	Surface	170	130		15	
9:31AM	Mid-depth	440	150		280	
	Bottom	1,750	150		500	
Oct. 23	Surface	230	210		200	
10:35AM	Mid-depth	230	220		240	
	Bottom	830	220		460	
Oct. 24	Surface	660	880		780	
11:35AM	Mid-depth	700	900		900	
	Bottom	700	850		950	
Oct. 28 (a)	Surface	130	15		19	
3:49PM	Mid-depth	190	16		44	
	Bottom	180	15		48	

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
Oct. 28 (c) 4:03PM	Surface		14			
	Mid-depth		13			
	Bottom		15			
Nov. 6 10:49AM	Surface	600	500		500	
	Mid-depth	500	500		500	
	Bottom	500	600		500	
Nov. 7 11:52AM	Surface	54	7		6	
	Mid-depth	60	7		7	
	Bottom	67	7		6	
Nov. 9 1:43PM	Surface	16	6		9	
	Mid-depth	44	7		8	
	Bottom	141	8		9	
1937						
Jan. 2 9:15AM	Surface	5	5	4	6	8
	Mid-depth	5	3	5	5	8
	Bottom					8
Mar. 20 12:00AM	Surface	71	9		13	
	Mid-depth	117	11		17	
	Bottom	149	13		15	
Apr. 3 11:28AM	Surface		300			
	Mid-depth		320			
	Bottom		320			
Apr. 4 12:19PM	Surface		460			
	Mid-depth		760			
	Bottom		1,060			
Apr. 7 2:10PM	Surface	22	7		32	
	Mid-depth	24	7		9	
	Bottom	29	25		7	

Apr. 9, 16, 28, 30, May 3, 4, 8, 12, 16, 20, 24, 26, 30, - Samples from all depths - Maximum 10.

May 31 9:35AM	Surface	23	7		15	
	Mid-depth	9	3		5	
	Bottom	5	5		3	

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
June 5, 7, 9, - Samples from all depths - Maximum 11.						
June 12	Surface		200			
7:57AM	Mid-depth		180			
	Bottom		200			
June 13	Surface	9	13		15	
9:14AM	Mid-depth	35	17		15	
	Bottom	31	15		15	
June 17	Surface		200			
12:18PM	Mid-depth		200			
	Bottom		200			
June 28	Surface	220	280		200	
8:18AM	Mid-depth	440	300		300	
	Bottom	400	280		420	
July 1 (a)	Surface		400			
10:20AM	Mid-depth		400			
	Bottom		400			
(a)	Surface		440			
10:30AM	Mid-depth		400			
	Bottom		400			
(a)	Surface		340			
10:40AM	Mid-depth		340			
	Bottom		390			
(a)	Surface		280			
10:50AM	Mid-depth		300			
	Bottom		320			
(a)	Surface		300			
11:00AM	Mid-depth		300			
	Bottom		300			
(a)	Surface		260			
11:10AM	Mid-depth		280			
	Bottom		300			
July 12 (a)	Surface		2,800			
8:00AM	Mid-depth		3,000			
	Bottom		3,200			

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 12 (a) 8:15AM	Surface		2,800			
	Mid-depth		2,800			
	Bottom		3,000			
(a) 8:30AM	Surface		2,100			
	Mid-depth		2,200			
	Bottom		2,300			
(a) 8:45AM	Surface		2,100			
	Mid-depth		2,200			
	Bottom		2,200			
July 14 (a) 9:45AM	Surface		1,000			
	Mid-depth		1,000			
	Bottom		1,200			
(a) 10:00AM	Surface		900			
	Mid-depth		900			
	Bottom		900			
(a) 10:15AM	Surface		1,000			
	Mid-depth		900			
	Bottom		900			
(a) 10:30AM	Surface		900			
	Mid-depth		1,000			
	Bottom		900			
July 15 11:36AM	Surface	260	260		280	
	Mid-depth	440	680		480	
	Bottom	480	4,900		1,620	
July 20 (a) 2:45PM	Surface		1,600			
	Mid-depth		4,600			
	Bottom		6,500			
(a) 3:00PM	Surface		1,650			
	Mid-depth		3,100			
	Bottom		6,500			
(a) 3:15PM	Surface		1,800			
	Mid-depth		6,300			
	Bottom		7,000			

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 20 (a)	Surface		1,450			
3:30PM	Mid-depth		5,000			
	Bottom		6,400			
July 26 (a)	Surface		3,050			
6:45AM	Mid-depth		3,850			
	Bottom		3,600			
(a)	Surface		3,400			
7:00AM	Mid-depth		3,500			
	Bottom		5,150			
(a)	Surface		2,950			
7:15AM	Mid-depth		6,250			
	Bottom		5,150			
(a)	Surface		2,500			
7:30AM	Mid-depth		6,580			
	Bottom		6,800			
(a)	Surface		2,700			
7:45AM	Mid-depth		6,450			
	Bottom		6,750			
July 27 (a)	Surface		3,700			
7:30AM	Mid-depth		3,850			
	Bottom		3,800			
(a)	Surface		3,400			
7:45AM	Mid-depth		3,400			
	Bottom		3,500			
(a)	Surface		3,400			
8:00AM	Mid-depth		3,000			
	Bottom		3,200			
(a)	Surface		2,800			
8:15AM	Mid-depth		2,900			
	Bottom		3,000			
July 29 (a)	Surface		1,440			
9:00AM	Mid-depth		1,700			
	Bottom		1,900			

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 29 (a)	Surface		1,330			
9:15AM	Mid-depth		2,200			
	Bottom		5,900			
(a)	Surface		1,200			
9:30AM	Mid-depth		2,700			
	Bottom		6,200			
(a)	Surface		1,080			
9:45AM	Mid-depth		2,400			
	Bottom		6,000			
(a)	Surface		2,800			
9:45PM	Mid-depth		3,250			
	Bottom		2,900			
(a)	Surface		2,200			
10:00PM	Mid-depth		3,450			
	Bottom		2,600			
(a)	Surface		2,050			
10:15PM	Mid-depth		1,150			
	Bottom		3,300			
(a)	Surface		2,100			
10:30PM	Mid-depth		2,150			
	Bottom		3,500			
July 31 (a)	Surface		2,100			
10:45AM	Mid-depth		5,900			
	Bottom		8,600			
(a)	Surface		2,500			
11:00AM	Mid-depth		5,900			
	Bottom		9,700			
(a)	Surface		2,100			
11:15AM	Mid-depth		6,900			
	Bottom		11,100			
(a)	Surface		1,700			
11:30AM	Mid-depth		9,300			
	Bottom		11,300			

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Aug. 1 (a) 11:45AM	Surface		3,200			
	Mid-depth		3,520			
	Bottom		3,700			
(a) 12:00AM	Surface		3,400			
	Mid-depth		10,300			
	Bottom		5,800			
(a) 12:15PM	Surface		3,200			
	Mid-depth		6,600			
	Bottom		5,800			
(a) 12:30PM	Surface		2,200			
	Mid-depth		5,100			
	Bottom		7,700			
(a) 12:45PM	Surface		2,500			
	Mid-depth		5,400			
	Bottom		8,100			
Aug. 2 (a) 1:00PM	Surface		3,200			
	Mid-depth		3,200			
	Bottom		4,400			
(a) 1:15PM	Surface		3,000			
	Mid-depth		3,000			
	Bottom		3,700			
(a) 1:30PM	Surface		3,000			
	Mid-depth		4,000			
	Bottom		4,500			
(a) 1:45PM	Surface		3,000			
	Mid-depth		3,100			
	Bottom		4,100			
Aug. 3 (a) 1:45PM	Surface		2,600			
	Mid-depth		2,600			
	Bottom		3,000			
(a) 2:00PM	Surface		2,600			
	Mid-depth		2,900			
	Bottom		2,800			

Table 8 (continued) Tide cycle: low tide to one hour after.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Aug. 3 (a) 2:15PM	Surface		2,600			
	Mid-depth		2,800			
	Bottom		3,000			
(a) 2:30PM	Surface		2,100			
	Mid-depth		5,700			
	Bottom		5,400			
(a) 2:45PM	Surface		2,000			
	Mid-depth		4,800			
	Bottom		5,800			
Aug. 5 (a) 3:45PM	Surface		2,000			
	Mid-depth		2,400			
	Bottom		2,500			
(a) 4:00PM	Surface		1,500			
	Mid-depth		1,850			
	Bottom		2,650			
(a) 4:15PM	Surface		1,550			
	Mid-depth		1,950			
	Bottom		3,100			
(a) 4:30PM	Surface		1,250			
	Mid-depth		4,600			
	Bottom		4,600			

Table 9 Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations				
		8	9	10	11	12
1934						
Oct. 4	Surface	226	215	647		
3:15PM	Mid-depth	800	640	990		
	Bottom		1,140	5,780		
Oct. 5	Surface	546				
3:55PM	Mid-depth	1,360				
	Bottom	15,175				
Oct. 16	Surface	1,200	1,025	1,300	1,010	1,525
12:35PM	Mid-depth	11,800	2,950	1,850	2,200	2,150
	Bottom	15,550	6,300	3,100	8,300	2,100
Oct. 18	Surface	280	290	300	250	430
2:20PM	Mid-depth	1,020	350	400	230	440
	Bottom	8,200	350	320	1,390	440
Oct. 27	Surface	85	25	22	41	77
9:00AM	Mid-depth	106	18	22	46	82
	Bottom	280	21	26	64	91
Oct. 28	Surface	580	680	760	770	900
10:25AM	Mid-depth	4,500	698	750	1,050	1,050
	Bottom	15,300	876	1,020	8,250	1,100
Oct. 29	Surface	140	123	95	91	137
11:35AM	Mid-depth	13,450				
	Bottom	15,500	12,900	11,300	15,650	4,050
Oct. 30	Surface	238	350	410	400	570
12:20PM	Mid-depth	12,850	440	460	870	630
	Bottom	14,700	1,300	1,700	15,100	640
Nov. 1	Surface	850	844	896	920	980
2:40PM	Mid-depth	3,500	1,150	1,270	1,300	1,150
	Bottom	13,320	2,300	1,950	5,100	1,250
Nov. 14	Surface	11	6	7	9	12
12:20PM	Mid-depth	16	9	7	10	11
	Bottom	11,600	10	8	13	13
Nov. 16	Surface	180	160	197	179	202
2:25PM	Mid-depth	610	167	212	256	330
	Bottom	2,060	165	410	400	370

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations				
		8	9	10	11	12
1934						
Nov. 29	Surface	17	8	8	8	11
12:35PM	Mid-depth	45	8	9	10	12
	Bottom	12,950	13	11	12	14
Dec. 31	Surface	660	660	700	990	1,010
2:35PM	Mid-depth	12,400	5,150	1,200	2,150	1,100
	Bottom	14,450	11,700	7,350	14,050	1,800
1935						
Jan. 14	Surface	7	4	4	6	6
2:25PM	Mid-depth		6	4	6	
	Bottom					
Jan. 29	Surface				240	
2:00PM	Mid-depth				300	
	Bottom				860	
Feb. 12	Surface	370	250	200	350	370
2:20PM	Mid-depth	2,540	790	210	790	850
	Bottom	14,550	1,650	430	8,600	1,000
Feb. 25	Surface	161	211	230	210	300
12:00AM	Mid-depth	1,470	260	300	265	315
	Bottom	14,100	4,300	555	12,350	355
Feb. 27	Surface	280	230	270	320	380
2:10PM	Mid-depth	3,150	240	285	345	380
	Bottom	3,000	1,145	360	8,500	400
Feb. 28	Surface	13	9	8	15	17
2:25PM	Mid-depth	58	11	9	10	17
	Bottom	70	14	7	17	21
Mar. 13	Surface	7	5		7	
1:55PM	Mid-depth	7	7		6	
	Bottom	6	9		9	
Mar. 14	Surface	6	5	5	5	7
2:25PM	Mid-depth	6	4	5	7	6
	Bottom	5	6	6	8	7
Apr. 10 (a)	Surface	53				
12:00AM	Mid-depth	53				
	Bottom	8,700				

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Apr. 10 (a) 12:15PM	Surface	47				
	Mid-depth	48				
	Bottom	9,850				
(a) 12:30PM	Surface	48				
	Mid-depth	49				
	Bottom	7,350				
(a) 12:45PM	Surface	26				
	Mid-depth	70				
	Bottom	9,000				
(a) 12:15PM	Surface	50	6		7	6
	Mid-depth	57	7		8	7
	Bottom	14,800	9		12	6
Apr. 11 (a) 2:45PM	Surface	310				
	Mid-depth	490				
	Bottom	14,300				
(a) 1:00PM	Surface	470				
	Mid-depth	320				
	Bottom	14,000				
(a) 1:15PM	Surface	300				
	Mid-depth	370				
	Bottom	14,400				
(a) 1:30PM	Surface	310				
	Mid-depth	500				
	Bottom	14,300				
Apr. 12 2:15PM	Surface	14	7		9	9
	Mid-depth	15	8		9	11
	Bottom	13	9		11	10
Apr. 25, 27, May 9, 10, 12, - Samples from all depths - Maximum 6.						
May 25 11:10AM	Surface	330	380		290	560
	Mid-depth	560	430		635	149
	Bottom	2,900	1,630		1,100	168
May 26 1:08PM	Surface	186	183		155	
	Mid-depth	505	235		330	
	Bottom	2,850	380		690	

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
May 27 (a)	Surface	440				
1:15AM	Mid-depth	700				
	Bottom	6,100				
(a)	Surface		360		360	
1:08AM	Mid-depth		370		390	
	Bottom		670		1,150	
(a)	Surface	400	340		390	
2:08PM	Mid-depth	4,400	510		800	
	Bottom	14,650	550		1,600	
May 28 (a)	Surface	400				
2:15AM	Mid-depth	620				
	Bottom	1,000				
(a)	Surface				340	
3:00AM	Mid-depth				380	
	Bottom				1,040	
(a)	Surface	420	360		340	540
1:45PM	Mid-depth	630	440		630	685
	Bottom	14,550	420		1,350	690
June 7	Surface	260	280		190	
10:38AM	Mid-depth	865	300		270	
	Bottom	14,200	300		1,050	
June 10	Surface	360	520		620	
1:33PM	Mid-depth	9,600	700		900	
	Bottom	14,600	10,900		13,600	
June 11	Surface	73	24		34	
1:05PM	Mid-depth	1,570	50		61	
	Bottom	14,100	54		195	
June 22	Surface	7	8		5	
10:45AM	Mid-depth	7	8		8	
	Bottom	7	9		12	
June 25	Surface	9	7		7	
1:08PM	Mid-depth	7	7		7	
	Bottom	7	7		13	

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
July 7	Surface	900	850		750	
10:50AM	Mid-depth	1,250	1,550		1,850	
	Bottom	14,100	6,600		9,850	
July 8	Surface	750	540		540	
11:18AM	Mid-depth	13,150	2,500		2,150	
	Bottom		9,000			
July 10 (a)	Surface	20	8		15	
2:05AM	Mid-depth	19	10		14	
	Bottom	24	9		13	
(a)	Surface	26	8		9	
1:05PM	Mid-depth	16	7		6	
	Bottom	17	7		11	
July 23	Surface	470	670		730	
11:18AM	Mid-depth	3,500	760		900	
	Bottom	14,900	750		2,850	
July 25	Surface	850	790		760	
1:08PM	Mid-depth	900	800		1,050	
	Bottom	6,100	850		2,000	
July 30	Surface	1,300	1,400		1,350	
6:08PM	Mid-depth	1,650	2,000		2,100	
	Bottom	10,700	2,200		6,100	
July 31	Surface	1,250	1,250		1,400	
7:08AM	Mid-depth	2,000	2,200		2,300	
	Bottom	9,200	2,700		3,850	
Aug. 6	Surface	3,750	3,400		3,300	
11:20AM	Mid-depth	13,900	9,650		9,450	
	Bottom	15,050	16,450		13,300	
Aug. 8	Surface	1,600	1,250		1,150	
12:35PM	Mid-depth	12,900	2,800		10,500	
	Bottom	15,100	13,200		14,600	
Aug. 22	Surface	2,200	2,100		2,200	
12:40PM	Mid-depth	7,700	3,500		2,600	
	Bottom	9,700	7,000		9,400	

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Sept. 2	Surface	5,000	5,000		5,300	
11:10AM	Mid-depth	13,200	8,250		11,400	
	Bottom	14,650	11,800		13,000	
Sept. 3	Surface	9,400	6,800		6,300	
11:55AM	Mid-depth	14,150	13,200		12,000	
	Bottom	13,950	14,000		13,150	
Sept. 5	Surface	3,200	3,300		3,050	
12:35PM	Mid-depth	7,750	7,050		5,150	
	Bottom	8,600	7,200		5,600	
Sept.17	Surface	12,900	10,100		14,400	
1:33PM	Mid-depth	15,750	15,750		15,350	
	Bottom	15,800	15,500		15,750	
Oct. 5	Surface	550	570		640	
11:58AM	Mid-depth	12,100	1,050		1,100	
	Bottom	15,150	13,100		14,800	
Oct. 7	Surface	4,250	3,900		3,750	
1:53PM	Mid-depth	10,300	5,500		9,000	
	Bottom	15,850	12,150		14,150	
Oct. 19	Surface	1,800	1,800			
11:48AM	Mid-depth	6,100	6,150			
	Bottom	14,950	8,350			
Oct. 21	Surface	4,800	3,900			
1:48PM	Mid-depth	10,800	8,450			
	Bottom	15,600	11,300			
Nov. 3 (e)	Surface		2,350			
11:30AM	Mid-depth		3,800			
	Bottom		3,250			
(a)	Surface				2,400	
12:00AM	Mid-depth				5,300	
	Bottom				13,800	
Nov. 4	Surface	4,150	3,950		4,000	
12:25PM	Mid-depth	12,400	5,500		7,400	
	Bottom	11,850	10,700		10,550	

Table 9 (continued) Tide cycle: one to two hours after low tide.

Parts per million

Date	Position	Stations				
		8	9	10	11	12
1935						
Nov. 5	Surface	3,800	3,100		3,200	
1:58PM	Mid-depth	7,400	4,500		4,600	
	Bottom	11,600	5,500		6,100	
Nov. 17	Surface	3,850	2,450		1,650	
11:45AM	Mid-depth	8,900	9,050		8,600	
	Bottom	12,050	10,450		11,200	
Nov. 19	Surface	140	450		450	
2:00PM	Mid-depth	8,800	700		950	
	Bottom	14,600	6,900		6,500	
Dec. 2	Surface	9	8		8	
11:30AM	Mid-depth	7	7		9	
	Bottom	7	10		10	
Dec. 5	Surface	95	14		52	
2:05PM	Mid-depth	141	15		73	
	Bottom	199	18		149	
Dec. 16	Surface	1,090	1,190		1,070	
11:15AM	Mid-depth	7,400	2,700		2,100	
	Bottom	9,750	6,000		7,650	
Dec. 17	Surface	650	850	750		
11:40AM	Mid-depth	7,550	850	900		
	Bottom	14,750	900	1,100		
Dec. 19	Surface	950	1,100	1,100	1,000	1,000
2:05PM	Mid-depth		1,200	2,000	1,400	1,050
	Bottom	9,000	5,950	2,050	6,800	1,150
Dec. 31	Surface	4,800	5,000		4,700	4,550
11:15AM	Mid-depth	8,750	6,850		6,800	5,350
	Bottom	9,850	9,300		10,200	7,050
1936						
Jan. 3	Surface	4,400	4,050	4,250	4,200	4,550
2:15PM	Mid-depth	5,900	5,150	5,600	5,800	4,900
	Bottom	7,300	5,350	5,950	7,800	5,100

Mar. 28, 29, 31, Apr. 24, 25, 26, 27, 28, 29, May 10, 21, - Samples from all depths - Maximum 35.

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
May 28	Surface		380		4,050	
1:05PM	Mid-depth		740		460	
	Bottom		4,800		420	
May 29	Surface		670		1,050	
1:05AM	Mid-depth		750		1,350	
	Bottom		700		3,100	
June 3	Surface		690		750	
5:05AM	Mid-depth		750		1,350	
	Bottom		4,650		1,550	
June 9 (a)	Surface		2,400		2,600	
9:05AM	Mid-depth		2,700		3,100	
	Bottom		3,250		4,800	
(a)	Surface		3,100		2,600	
9:05PM	Mid-depth		2,700		3,600	
	Bottom		2,800		7,150	
June 21 (a)	Surface	1,000	750		950	
7:39AM	Mid-depth	850	950		1,050	
	Bottom	1,450	1,100		1,300	
(e)	Surface		850			
7:56AM	Mid-depth		850			
	Bottom		2,300			
June 22	Surface		950			
8:44AM	Mid-depth		1,150			
	Bottom		3,600			
June 23 (a)	Surface					
9:06AM	Mid-depth	1,650	1,550		1,600	
	Bottom	4,000	3,000		2,200	
(e)	Surface		650			
9:31AM	Mid-depth		1,500			
	Bottom		3,150			
June 24 (a)	Surface	4,000	1,750		2,100	
9:46AM	Mid-depth	2,260	2,300		2,200	
	Bottom	7,200	8,000		6,400	

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
June 24 (e)	Surface		1,900			
10:19AM	Mid-depth		2,300			
	Bottom		7,100			
June 25 (a)	Surface	900	1,300		1,350	
10:54AM	Mid-depth	5,950	1,450		1,600	
	Bottom	7,200	5,000		2,200	
(e)	Surface		1,100			
11:03AM	Mid-depth		1,550			
	Bottom		3,150			
June 26 (a)	Surface	600	700		800	
11:45AM	Mid-depth	700	900		850	
	Bottom	6,250	5,200		1,500	
(e)	Surface		650			
11:58AM	Mid-depth		700			
	Bottom		750			
June 27 (a)	Surface	800	700		900	
12:22PM	Mid-depth	3,250	1,850		2,100	
	Bottom	8,200	4,950		4,850	
(e)	Surface		500			
12:49PM	Mid-depth		4,450			
	Bottom		7,900			
June 28 (a)	Surface	2,050	2,050		2,700	
1:16PM	Mid-depth	2,250	2,850		3,000	
	Bottom	2,300	2,200		3,200	
(e)	Surface		2,100			
11:39PM	Mid-depth		2,500			
	Bottom		2,400			
June 29 (a)	Surface					
2:07PM	Mid-depth	4,000	4,100		3,900	
	Bottom	4,000	3,900		4,500	
(e)	Surface		2,500			
2:28PM	Mid-depth		4,150			
	Bottom		4,350			

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
June 30 (a)	Surface					
2:48PM	Mid-depth	4,100	5,200		5,650	
	Bottom	7,900	7,650		6,900	
(e)	Surface		3,500			
3:16PM	Mid-depth		4,500			
	Bottom		7,200			
July 1 (a)	Surface	3,750	4,150		3,900	
3:33AM	Mid-depth	5,500	5,500		4,500	
	Bottom	6,300	6,850		6,150	
(e)	Surface		4,100			
3:55AM	Mid-depth		5,450			
	Bottom		6,150			
July 3 (a)	Surface	1,750	1,200		1,950	
5:08AM	Mid-depth	2,000	3,400		2, 900	
	Bottom	4,900	3,700		2,900	
(e)	Surface		1,200			
5:23AM	Mid-depth		2,350			
	Bottom		4,350			
July 4 (a)	Surface					
5:46AM	Mid-depth	2,000	2,200		2,700	
	Bottom	5,000	3,600		3,300	
(e)	Surface		1,400			
6:05AM	Mid-depth		2,400			
	Bottom		3,800			
July 5	Surface		1,800			
6:46AM	Mid-depth		3,900			
	Bottom		4,700			
July 6	Surface		3,300			
7:28AM	Mid-depth		4,250			
	Bottom		5,950			
July 7	Surface		3,750			
8:11AM	Mid-depth		5,600			
	Bottom		6,450			

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
July 8	Surface		2,300			
8:56AM	Mid-depth		3,100			
	Bottom		4,300			
July 9	Surface		1,750			
9:44AM	Mid-depth		3,600			
	Bottom		4,500			
July 10	Surface		2,400			
10:07AM	Mid-depth		2,900			
	Bottom		3,450			
July 11 (a)	Surface	3,400	3,500		3,700	
11:12AM	Mid-depth	4,300	3,100		4,000	
	Bottom	3,700	3,600		4,450	
(e)	Surface		1,950			
11:33AM	Mid-depth		3,050			
	Bottom		2,950			
July 12 (a)	Surface	3,000	3,350		3,350	
12:07PM	Mid-depth	3,150	3,500		3,500	
	Bottom	3,200	3,400		3,800	
(e)	Surface		2,300			
12:32PM	Mid-depth		3,050			
	Bottom		2,950			
July 13	Surface		3,250			
1:33PM	Mid-depth		3,150			
	Bottom		8,950			
July 14 (a)	Surface	2,000	2,350		2,400	
2:04PM	Mid-depth	2,200	2,550		2,850	
	Bottom	3,300	3,050		3,050	
(e)	Surface		2,250			
2:35PM	Mid-depth		2,250			
	Bottom		2,700			
July 15 (a)	Surface	1,500	1,100		1,700	
2:53PM	Mid-depth	1,450	1,800		2,000	
	Bottom	1,550	1,700		1,850	

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
July 15 (e)	Surface		1,150			
3:35PM	Mid-depth		2,100			
	Bottom		1,450			
July 17 (a)	Surface	1,350	1,450		1,950	
4:49PM	Mid-depth	1,700	2,000		2,100	
	Bottom	5,950	3,900		4,350	
(e)	Surface		1,300			
5:16PM	Mid-depth		1,700			
	Bottom		2,100			
July 19	Surface		3,900			
6:46AM	Mid-depth		4,800			
	Bottom		3,850			
July 21 (a)	Surface	3,600	3,700		3,950	
8:09AM	Mid-depth	3,750	3,750		4,150	
	Bottom	3,650	3,450		4,150	
(e)	Surface		3,300			
8:24AM	Mid-depth		3,650			
	Bottom		3,800			
July 23 (a)	Surface	1,800	2,300		2,100	
9:33AM	Mid-depth	2,500	2,000		2,700	
	Bottom	2,450	2,400		2,800	
(e)	Surface		1,850			
9:52AM	Mid-depth		3,000			
	Bottom		3,050			
July 25 (a)	Surface	1,300	1,100		1,600	
11:10AM	Mid-depth	6,600	1,950		2,450	
	Bottom	7,600	6,850		6,350	
(e)	Surface		1,120			
11:24AM	Mid-depth		1,450			
	Bottom		6,450			
July 29 (a)	Surface	3,900	3,650		3,450	
2:24PM	Mid-depth	4,200	4,750		5,550	
	Bottom	7,650	8,650		9,150	

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
July 29 (e)	Surface		3,500			
2:48PM	Mid-depth		4,700			
	Bottom		7,800			
July 31 (a)	Surface	1,700	2,000		2,500	
4:00PM	Mid-depth	2,900	3,200		3,200	
	Bottom	17,400	6,200		5,100	
(e)	Surface		1,900			
4:26PM	Mid-depth		3,000			
	Bottom		6,150			
Aug. 2	Surface	2,600	2,300		2,900	
5:34AM	Mid-depth	3,000	3,100		3,150	
	Bottom	4,100	3,450		3,750	
Aug. 4 (a)	Surface	4,500	4,550		4,700	
6:54AM	Mid-depth	6,750	6,450		5,400	
	Bottom	7,350	7,950		6,750	
(e)	Surface		4,450			
7:10AM	Mid-depth		6,200			
	Bottom		7,050			
Aug. 6 (a)	Surface	2,600	2,600		2,850	
8:14AM	Mid-depth	4,600	4,150		4,050	
	Bottom	6,350	5,700		5,500	
(e)	Surface		2,550			
8:31AM	Mid-depth		3,900			
	Bottom		5,500			
Aug. 8 (a)	Surface	800	1,300		1,200	
9:48AM	Mid-depth	4,400	3,300		2,000	
	Bottom	4,700	3,900		2,900	
(e)	Surface		900			
10:13AM	Mid-depth		4,200			
	Bottom		3,850			
Aug. 10 (a)	Surface					
11:42AM	Mid-depth	4,150	4,000		4,500	
	Bottom	5,950	6,050		6,100	

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
Aug. 10 (e)	Surface		3,200			
12:13PM	Mid-depth		3,850			
	Bottom		5,550			
Aug. 12 (a)	Surface					
1:47PM	Mid-depth	3,900	3,700		4,250	
	Bottom	3,700	4,150		4,400	
(e)	Surface		3,000			
2:24PM	Mid-depth		4,000			
	Bottom		4,600			
Aug. 14 (a)	Surface	2,700	3,300		3,300	
4:07PM	Mid-depth	3,600	4,450		4,250	
	Bottom	3,750	5,950		4,600	
(e)	Surface		2,900			
4:21PM	Mid-depth		4,100			
	Bottom		3,800			
Aug. 18 (a)	Surface	5,450	5,500		5,600	
6:04AM	Mid-depth	5,400	5,600		6,000	
	Bottom	5,500	5,600		6,100	
(e)	Surface		5,100			
7:03AM	Mid-depth		5,700			
	Bottom		5,700			
Aug. 20 (a)	Surface	3,400	3,300		3,700	
8:02AM	Mid-depth	3,750	4,000		4,700	
	Bottom	4,400	4,000		4,900	
(e)	Surface		3,250			
8:22AM	Mid-depth		4,000			
	Bottom		4,000			
Aug. 24 (a)	Surface	4,300	4,200		4,400	
11:12AM	Mid-depth	10,550	7,850		7,250	
	Bottom	14,400	12,350		14,000	
(e)	Surface		4,550			
11:30AM	Mid-depth		7,600			
	Bottom		14,500			

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
Aug. 30	Surface		2,250			
4:47PM	Mid-depth		2,600			
	Bottom		5,300			
Sept. 1 (a)	Surface	2,000	1,950		2,250	
5:44AM	Mid-depth	4,050	2,500		2,500	
	Bottom	5,200	3,800		3,900	
(e)	Surface		1,800			
5:57AM	Mid-depth		2,350			
	Bottom		5,700			
Sept. 3 (a)	Surface	1,900	1,850		2,250	
6:58AM	Mid-depth	2,000	2,250		2,450	
	Bottom	4,700	3,600		3,350	
(e)	Surface		1,500			
7:28AM	Mid-depth		3,400			
	Bottom		4,500			
Sept. 5 (a)	Surface	750	600		800	
8:38AM	Mid-depth	800	850		1,250	
	Bottom	15,500	4,500		1,300	
(e)	Surface		550			
9:08AM	Mid-depth		1,150			
	Bottom		2,250			
Sept. 6 (a)	Surface	1,300	1,400		1,400	
9:13AM	Mid-depth	1,600	1,600		1,650	
	Bottom	3,300	1,750		2,800	
(e)	Surface		1,000			
9:52AM	Mid-depth		1,100			
	Bottom		3,900			
Sept. 8 (a)	Surface	1,300	1,400		1,900	
11:31AM	Mid-depth	2,300	1,400		2,350	
	Bottom	13,900	11,050		6,400	
(e)	Surface		1,350			
12:08PM	Mid-depth		2,450			
	Bottom		7,000			

Table 9 (continued) Tide cycle: one to two hours after low tide.

Parts per million

Date	Position	Stations				
		8	9	10	11	12
1936						
Sept.10 (a)	Surface	2,600	2,000		2,700	
1:56PM	Mid-depth	6,500	3,350		3,600	
	Bottom	15,400	9,000		9,800	
(e)	Surface		2,300			
2:13PM	Mid-depth		4,000			
	Bottom		13,600			
Sept.17 (a)	Surface	1,000	1,450		1,400	
7:04AM	Mid-depth	2,100	1,600		1,800	
	Bottom	5,300	3,900		2,300	
(e)	Surface		1,050			
7:10AM	Mid-depth		1,450			
	Bottom		2,850			
Sept.21 (a)	Surface	2,000	1,400		1,800	
9:28AM	Mid-depth	4,800	6,800		4,400	
	Bottom	8,000	8,200		7,500	
(e)	Surface		1,900			
9:52AM	Mid-depth		9,950			
	Bottom		8,250			
1937						
Mar. 20, Apr. 7, 15, 18, 19, 29, May 29, 30, - Samples from all depths - Maximum 11.						
June 11 (a)	Surface		19			
8:10AM	Mid-depth		19			
	Bottom		19			
(a)	Surface		19			
8:20AM	Mid-depth		23			
	Bottom		33			
(a)	Surface		19			
8:30AM	Mid-depth		29			
	Bottom		85			
June 12 (a)	Surface	5	21		23	
9:18AM	Mid-depth	69	17		31	
	Bottom	79	19		39	

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
June 24 (a)	Surface	10	8		9	
6:28AM	Mid-depth	11	7		9	
	Bottom	9	7		9	
(e)	Surface		5			
6:40AM	Mid-depth		7			
	Bottom		5			
July 1 (a)	Surface		220			
11:20AM	Mid-depth		240			
	Bottom		280			
(a)	Surface		240			
11:30AM	Mid-depth		240			
	Bottom		260			
(a)	Surface		200			
11:40AM	Mid-depth		200			
	Bottom		240			
(a)	Surface		200			
11:50AM	Mid-depth		220			
	Bottom		1,100			
(a)	Surface		200			
12:00AM	Mid-depth		220			
	Bottom		1,120			
(a)	Surface		200			
12:10PM	Mid-depth		1,600			
	Bottom		3,100			
July 2 (a)	Surface	140	39		49	
12:09PM	Mid-depth	200	114		125	
	Bottom	220	200		220	
(e)	Surface		63			
12:26PM	Mid-depth		67			
	Bottom		220			
July 8 (a)	Surface	280	200		200	
5:49AM	Mid-depth	280	240		280	
	Bottom	360	300		280	

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 8 (e)	Surface		145			
5:59AM	Mid-depth		200			
	Bottom		260			
July 12 (a)	Surface		1,800			
9:00AM	Mid-depth		1,900			
	Bottom		2,100			
(a)	Surface		1,200			
9:15AM	Mid-depth		2,400			
	Bottom		3,700			
(a)	Surface		1,500			
9:30AM	Mid-depth		2,300			
	Bottom		3,300			
(a)	Surface		1,100			
9:45AM	Mid-depth		2,000			
	Bottom		4,100			
July 14 (a)	Surface		750			
10:45AM	Mid-depth		650			
	Bottom		700			
(a)	Surface		900			
11:00AM	Mid-depth		1,300			
	Bottom		1,000			
(a)	Surface		260			
11:15AM	Mid-depth		2,100			
	Bottom		1,000			
(a)	Surface		220			
11:30AM	Mid-depth		500			
	Bottom		2,300			
July 15 (e)	Surface		220			
11:45AM	Mid-depth		300			
	Bottom		4,200			
July 20 (a)	Surface		1,450			
3:45PM	Mid-depth		6,600			
	Bottom		6,900			

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 20 (a) 4:00PM	Surface		1,250			
	Mid-depth		8,500			
	Bottom		9,500			
(a) 4:15PM	Surface		1,150			
	Mid-depth		7,800			
	Bottom		8,300			
(a) 4:30PM	Surface		1,200			
	Mid-depth		7,000			
	Bottom		8,600			
July 24 (a) 6:38AM	Surface	1,400	1,500		2,100	
	Mid-depth	1,700	2,400		2,100	
	Bottom	2,700	2,800		3,700	
(e) 6:48AM	Surface		1,200			
	Mid-depth		1,800			
	Bottom		2,500			
July 26 (a) 8:00AM	Surface		2,850			
	Mid-depth		6,650			
	Bottom		7,550			
(a) 8:15AM	Surface		2,750			
	Mid-depth		7,800			
	Bottom		7,800			
(a) 8:30AM	Surface		2,550			
	Mid-depth		8,250			
	Bottom		8,100			
(a) 8:45AM	Surface		2,250			
	Mid-depth		7,250			
	Bottom		9,400			
July 27 (a) 8:30AM	Surface		2,400			
	Mid-depth		3,100			
	Bottom		4,100			
(a) 8:45AM	Surface		2,300			
	Mid-depth		3,800			
	Bottom		4,000			

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 27 (a) 9:00AM	Surface		1,900			
	Mid-depth		4,200			
	Bottom		4,800			
(a) 9:15AM	Surface		1,900			
	Mid-depth		4,100			
	Bottom		4,600			
July 29 (a) 10:00AM	Surface		840			
	Mid-depth		2,400			
	Bottom		3,600			
(a) 10:15AM	Surface		740			
	Mid-depth		2,100			
	Bottom		4,800			
(a) 10:30AM	Surface		700			
	Mid-depth		3,500			
	Bottom		6,500			
(a) 10:45AM	Surface		720			
	Mid-depth		2,900			
	Bottom		8,400			
(a) 10:45PM	Surface		1,950			
	Mid-depth		2,550			
	Bottom		4,400			
(a) 11:00PM	Surface		1,900			
	Mid-depth		5,250			
	Bottom		4,600			
(a) 11:15PM	Surface		1,650			
	Mid-depth		3,550			
	Bottom		5,100			
(a) 11:30PM	Surface		1,700			
	Mid-depth		4,800			
	Bottom		5,200			
July 31 (a) 11:45AM	Surface		1,800			
	Mid-depth		11,600			
	Bottom		14,100			

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 31 (a) 12:00AM	Surface		1,800			
	Mid-depth		12,600			
	Bottom		13,800			
(a) 12:15PM	Surface		2,000			
	Mid-depth		13,900			
	Bottom		14,100			
(a) 12:30PM	Surface		2,200			
	Mid-depth		9,600			
	Bottom		14,200			
Aug. 1 (a) 1:00PM	Surface		3,000			
	Mid-depth		7,000			
	Bottom		9,700			
(a) 1:15PM	Surface		2,900			
	Mid-depth		12,700			
	Bottom		13,300			
(a) 1:30PM	Surface		3,100			
	Mid-depth		12,300			
	Bottom		13,700			
(a) 1:45PM	Surface		3,300			
	Mid-depth		10,100			
	Bottom		13,600			
Aug. 2 (a) 2:00PM	Surface		2,700			
	Mid-depth		4,900			
	Bottom		7,600			
(a) 2:15PM	Surface		2,800			
	Mid-depth		7,600			
	Bottom		8,300			
(a) 2:30PM	Surface		3,000			
	Mid-depth		4,350			
	Bottom		7,200			
(a) 2:45PM	Surface		2,100			
	Mid-depth		5,650			
	Bottom		9,900			

Table 9 (continued) Tide cycle: one to two hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Aug. 3 (a) 3:00PM	Surface		2,000			
	Mid-depth		5,500			
	Bottom		5,200			
(a) 3:15PM	Surface		5,600			
	Mid-depth		5,200			
	Bottom		7,300			
(a) 3:30PM	Surface		1,400			
	Mid-depth		4,500			
	Bottom		7,700			
(a) 3:45PM	Surface		1,300			
	Mid-depth		7,800			
	Bottom		9,000			
Aug. 5 (a) 4:45PM	Surface		1,150			
	Mid-depth		4,100			
	Bottom		4,500			
(a) 5:00PM	Surface		1,100			
	Mid-depth		3,650			
	Bottom		4,600			
(a) 5:15PM	Surface		1,300			
	Mid-depth		6,400			
	Bottom		6,200			
(a) 5:30PM	Surface		850			
	Mid-depth		4,700			
	Bottom		6,700			

Table 10 Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations				
		8	9	10	11	12
1934						
Oct. 15	Surface	2,250	2,475	2,375	1,575	1,575
12:15PM	Mid-depth	11,650	7,150	6,100	6,350	2,700
	Bottom	14,850	11,250	8,100	14,150	3,600
Oct. 17	Surface	400	320	390	330	400
2:15PM	Mid-depth	5,750	1,050	530	750	440
	Bottom	10,000	3,300	1,200	4,200	450
Oct. 27 (a)	Surface	55	30	22	37	68
9:55AM	Mid-depth	200	22	21	36	69
	Bottom	3,200	141	21	45	71
(a)	Surface	215	90	61	53	62
10:50AM	Mid-depth	1,680	141	64	420	61
	Bottom	5,250	1,690	810	5,250	62
Oct. 28	Surface	600	600	640	620	600
11:20AM	Mid-depth					
	Bottom	14,750	5,200	1,100	12,000	680
Oct. 31	Surface	500	370	494	620	570
2:10PM	Mid-depth	9,250	1,470	1,850	5,050	860
	Bottom	15,050	12,900	8,000	15,100	1,280
Nov. 13	Surface	9	10	7	10	11
12:15PM	Mid-depth	10	10	9	8	13
	Bottom	1,425	15	9	9	13
Nov. 15	Surface	340	300	310	210	240
2:25PM	Mid-depth	1,280	820	690	820	280
	Bottom	10,300	1,550	900	3,700	330
Nov. 27	Surface	20	13	15	19	31
12:05PM	Mid-depth	6,050	102	35	23	25
	Bottom	14,500	6,300	1,300	11,800	27
Nov. 28	Surface	21	8	7	7	8
12:20PM	Mid-depth	204	8	8	11	10
	Bottom	13,650	12	15	12	14
Nov. 30	Surface	34	14	10	15	97
2:25PM	Mid-depth	157	17	11	23	88
	Bottom	11,200	23	30	199	114

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1934						
Dec. 13	Surface	252	278	250	260	315
12:45PM	Mid-depth	3,450	445	950	850	350
	Bottom	10,900	4,050	950	855	610
Dec. 14	Surface	136	140	139	165	162
2:25PM	Mid-depth	159	2,000	1,500	1,450	950
	Bottom	14,850	7,400	5,000	12,950	2,300
Dec. 27	Surface	14	10	11	13	45
11:50AM	Mid-depth	43	13	9	15	42
	Bottom					41
Dec. 28	Surface	860	680	660	600	630
12:40PM	Mid-depth	11,600	7,600	3,450	6,300	640
	Bottom	13,550	11,150	7,900	14,000	5,100
1935						
Jan. 11	Surface	8	7	5	6	7
12:25PM	Mid-depth				5	6
	Bottom				6	7
Jan. 28	Surface				17	
2:20PM	Mid-depth				35	
	Bottom				6,300	
Feb. 11	Surface	360	163	190	270	270
2:25PM	Mid-depth	4,950	2,170	350	670	610
	Bottom	12,550	4,550	470	8,250	4,000
Mar. 10, 11, 12, 26, 27, 28, 29, - Samples from all depths - Maximum 10.						
Apr. 9	Surface	480	300		250	220
12:15PM	Mid-depth	3,600	1,200		720	220
	Bottom	14,950	3,700		6,000	230
Apr. 10 (a)	Surface	32				
1:00PM	Mid-depth	720				
	Bottom	14,300				
(a)	Surface	41				
1:15PM	Mid-depth	730				
	Bottom	9,200				

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Apr. 10 (a)	Surface	63				
1:30PM	Mid-depth	940				
	Bottom	6,400				
Apr. 11 (a)	Surface	300				
1:45PM	Mid-depth	510				
	Bottom	14,350				
(a)	Surface	290				
2:00PM	Mid-depth	450				
	Bottom	14,450				
(a)	Surface	280				
2:15PM	Mid-depth	500				
	Bottom	10,850				
(a)	Surface	240				
2:30PM	Mid-depth	2,600				
	Bottom	12,000				
(a)	Surface	242	182		231	244
2:20PM	Mid-depth	3,600	230		270	250
	Bottom	14,700	1,960		7,400	260
Apr. 24, 26, May 8, 11, - Samples from all depths - Maximum 8.						
May 24	Surface	200	200		460	200
11:20AM	Mid-depth	980	240		225	170
	Bottom	2,080	480		405	250
May 26	Surface	250	260		180	
2:08PM	Mid-depth	5,500	390		720	
	Bottom	6,150	1,000		3,850	
May 27 (a)	Surface	330				
2:15PM	Mid-depth	520				
	Bottom	4,550				
(a)	Surface		370		380	
3:08AM	Mid-depth		420		400	
	Bottom		2,200		4,600	
(a)	Surface	510	450		430	
3:08PM	Mid-depth	5,500	5,050		2,000	
	Bottom	14,200	810		5,100	

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
May 28 (a)	Surface	280	300			
3:08AM	Mid-depth	700	310			
	Bottom	1,140	500			
(a)	Surface				320	
4:00AM	Mid-depth				400	
	Bottom				1,000	
June 6	Surface	200	200		150	
10:53AM	Mid-depth		360		220	
	Bottom	9,550	1,350		1,800	
June 8	Surface	280	300		270	
12:58PM	Mid-depth	9,450	4,600		2,050	
	Bottom	14,650	6,250		8,800	
June 9	Surface	310	200		420	
1:05PM	Mid-depth	9,200	430		1,250	
	Bottom	13,800	9,400		12,950	
June 21	Surface	8	6		8	
10:38AM	Mid-depth	7	8		11	
	Bottom	9	11		16	
June 23	Surface	9	9		10	
12:55PM	Mid-depth	9	8		14	
	Bottom	12	13		17	
June 24	Surface	7	7		7	
1:08PM	Mid-depth	7	8		8	
	Bottom	8	11		10	
July 3	Surface	520	440		390	
10:38AM	Mid-depth	3,250	1,040		1,010	
	Bottom	4,300	1,500		3,000	
July 5	Surface	430	400		400	
10:48AM	Mid-depth	5,550	2,700		1,900	
	Bottom	11,950	495		6,300	
July 6 (a)	Surface	3,550	4,050			
11:35AM	Mid-depth	5,450	3,300			
	Bottom	5,900	4,900			

Table 10 (continued) Tide cycle: two to three after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
July 6 (a)	Surface	670	570		610	
10:58AM	Mid-depth	11,400	4,500		2,250	
	Bottom	14,150	7,100		9,900	
July 9	Surface	24	18		17	
1:03PM	Mid-depth	65	21		25	
	Bottom	5,700	16		33	
July 10 (a)	Surface	18	6		10	
2:05PM	Mid-depth	8	6		8	
	Bottom	12	8		11	
(a)	Surface	9	9		12	
3:05PM	Mid-depth	11	11		13	
	Bottom	12	12		19	
July 22	Surface	360	240		340	
11:33AM	Mid-depth	9,100	2,400		1,200	
	Bottom	14,950	6,100		10,450	
July 24	Surface	290	340		310	
1:38PM	Mid-depth	950	530		700	
	Bottom	14,450	5,300		10,550	
July 30	Surface	1,100	1,000		730	
7:08PM	Mid-depth	4,800	6,150		1,500	
	Bottom	10,350	6,650		7,150	
July 31	Surface	2,150	1,500		1,600	
8:08AM	Mid-depth	3,000	4,100		3,600	
	Bottom	6,100	4,200		5,950	
Aug. 4	Surface	1,200	1,200		1,200	
10:50AM	Mid-depth	7,000	4,400		2,700	
	Bottom	14,500	8,200		13,200	
Aug. 5	Surface	3,700	2,800		2,850	
10:55AM	Mid-depth	11,750	13,800		8,600	
	Bottom	15,000	11,200		14,400	
Aug. 19	Surface	2,300	2,700		1,950	
11:00AM	Mid-depth	7,150	6,350		9,450	
	Bottom	15,200	7,400		10,050	

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Aug. 20	Surface	2,150	2,200		2,000	
11:28AM	Mid-depth	12,000	8,200		6,300	
	Bottom	15,350	11,100		11,600	
Aug. 21	Surface	2,300	2,300		2,500	
12:45PM	Mid-depth	13,800	11,100		7,000	
	Bottom	14,450	13,000		12,200	
Sept. 1	Surface	5,700	4,600		4,000	
10:55AM	Mid-depth	11,700	11,750		11,850	
	Bottom	11,850	11,900		11,900	
Sept. 4	Surface	8,700	8,700		8,200	
12:53PM	Mid-depth	14,300	13,300		13,400	
	Bottom	14,500	13,500		13,700	
Sept.15	Surface	4,500	4,400		4,450	
10:55AM	Mid-depth	4,450	4,450		4,400	
	Bottom	4,450	4,700		4,400	
Sept.18	Surface	5,200	5,100		4,700	
1:48PM	Mid-depth	12,700	11,000		11,850	
	Bottom	12,850	12,400		13,100	
Oct. 4	Surface	900	900		1,200	
11:53AM	Mid-depth	10,300	8,200		6,300	
	Bottom	14,900	8,100		12,400	
Oct. 6	Surface	3,100	3,600		1,600	
1:53PM	Mid-depth	12,950	5,050		5,000	
	Bottom	15,500	9,600		15,100	
Oct. 18	Surface	1,600	1,300		1,250	
11:53AM	Mid-depth	13,950	10,600		13,950	
	Bottom	14,600	11,600		14,250	
Oct. 19	Surface		1,750		1,900	
1:48PM	Mid-depth		6,150		8,750	
	Bottom		9,700		12,750	
Oct. 20	Surface	2,050	2,000		2,150	
1:58PM	Mid-depth	5,800	3,700		2,700	
	Bottom	14,000	7,900		9,200	

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Nov. 2 12:00AM	Surface				2,750	
	Mid-depth				7,300	
	Bottom				11,100	
Nov. 3 12:10PM	Surface	3,100	3,650			
	Mid-depth	10,650	5,550			
	Bottom	9,450	8,850			
Nov. 4 1:40PM	Surface	6,200	5,850		4,200	
	Mid-depth	11,200	8,200		7,000	
	Bottom	12,800	9,450		11,650	
Nov. 16 11:55AM	Surface	1,100	750		650	
	Mid-depth	9,650	4,950		2,500	
	Bottom	9,250	4,850		5,850	
Nov. 17 12:55PM	Surface	3,750	2,700		2,050	
	Mid-depth	10,200	9,750		10,300	
	Bottom	12,750	10,250		11,400	
Nov. 18 1:48PM	Surface	230	150		170	
	Mid-depth	1,000	450		190	
	Bottom	1,150	470		200	
Dec. 1 11:20AM	Surface	11	9		9	
	Mid-depth	13	9		9	
	Bottom	15	10		10	
Dec. 4 2:05PM	Surface	9	6		9	
	Mid-depth	14	8		9	
	Bottom	16	12		11	
Dec. 15 11:05AM	Surface	390	400		550	
	Mid-depth	8,500	2,700		1,750	
	Bottom	7,950	6,100		6,400	
Dec. 18 2:15PM	Surface	750	750	2,250	1,000	1,000
	Mid-depth	7,550	5,650	5,350	4,550	1,200
	Bottom	10,400	7,400	5,300	8,050	1,600
1936						
Jan. 2 2:35PM	Surface				6,550	4,050
	Mid-depth				10,500	4,200
	Bottom				10,750	2,300

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
Jan. 30 12:25PM	Surface Mid-depth Bottom					570 650 730
Mar. 27, 28, 29, 30, Apr. 24, 25, 26, 27, 28, May 6, 7, 8, 9, 11, 21, - Samples from all depths - Maximum 10.						
May 28 2:05PM	Surface Mid-depth Bottom		1,910 4,150 4,750		1,050 2,750 3,150	
May 29 2:05AM	Surface Mid-depth Bottom		920 2,700 4,800		540 600 600	
June 3 (a) 6:05AM	Surface Mid-depth Bottom		1,000 2,750 3,850		400 2,150 4,100	
(a) 6:05PM	Surface Mid-depth Bottom		4,750 6,750 6,700		650 7,500 5,300	
June 9 (a) 10:05AM	Surface Mid-depth Bottom		1,500 2,000 7,000		1,900 2,200 5,500	
(a) 10:05PM	Surface Mid-depth Bottom		1,850 3,550 8,500		1,750 7,250 8,500	
1937						
Mar. 17 (a) 11:20AM	Surface Mid-depth Bottom	9 13 25	13 15 15	13 13 19	47 41 39	47 45 43
Mar. 19 (a) 1:05PM	Surface Mid-depth Bottom	13 19 21	17 19 19	15 17 19	25 21 25	23 25 27
Apr. 14, 27, 28, 29, May 13, 14, 28, - Samples from all depths - Maximum 7.						

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
June 11 (a) 8:40AM	Surface		18			
	Mid-depth		24			
	Bottom		68			
(a) 8:50AM	Surface		17			
	Mid-depth		30			
	Bottom		43			
(a) 9:00AM	Surface		36			
	Mid-depth		56			
	Bottom		52			
(a) 9:10AM	Surface		20			
	Mid-depth		62			
	Bottom		97			
(a) 9:20AM	Surface		54			
	Mid-depth		68			
	Bottom		89			
(a) 9:30AM	Surface		56			
	Mid-depth		85			
	Bottom		65			
June 25 (a) 8:23AM	Surface	7	5		5	
	Mid-depth	7	7		7	
	Bottom	3	9		9	
July 1 (a) 12:20PM	Surface		200			
	Mid-depth		460			
	Bottom		2,900			
(a) 12:30PM	Surface		200			
	Mid-depth		1,820			
	Bottom		3,700			
(a) 12:40PM	Surface		200			
	Mid-depth		1,880			
	Bottom		4,300			
(a) 12:50PM	Surface		700			
	Mid-depth		4,000			
	Bottom		5,200			

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 1 (a)	Surface		240			
1:00PM	Mid-depth		3,300			
	Bottom		4,400			
(a)	Surface		240			
1:10PM	Mid-depth		2,900			
	Bottom		3,400			
July 9 (a)	Surface	1,600	1,050		680	
8:14AM	Mid-depth	2,120	1,560		910	
	Bottom	2,250	1,700		1,490	
July 12 (a)	Surface		1,400			
10:00AM	Mid-depth		2,100			
	Bottom		1,700			
(a)	Surface		3,100			
10:15AM	Mid-depth		4,700			
	Bottom		7,200			
(a)	Surface		4,000			
10:30AM	Mid-depth		6,300			
	Bottom		6,400			
(a)	Surface		2,900			
10:45AM	Mid-depth		3,900			
	Bottom		5,100			
July 14 (a)	Surface		440			
11:45AM	Mid-depth		3,900			
	Bottom		4,000			
(a)	Surface		320			
12:00AM	Mid-depth		5,000			
	Bottom		4,700			
(a)	Surface		460			
12:15PM	Mid-depth		3,100			
	Bottom		4,200			
(a)	Surface		340			
12:30PM	Mid-depth		3,500			
	Bottom		2,800			

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 20 (a) 4:45PM	Surface		1,200			
	Mid-depth		7,300			
	Bottom		7,000			
(a) 5:00PM	Surface		1,250			
	Mid-depth		9,300			
	Bottom		8,200			
(a) 5:15PM	Surface		1,500			
	Mid-depth		7,900			
	Bottom		8,500			
(a) 5:30PM	Surface		1,700			
	Mid-depth		8,300			
	Bottom		8,800			
July 26 (a) 9:00AM	Surface		2,800			
	Mid-depth		6,650			
	Bottom		8,550			
(a) 9:15AM	Surface		2,800			
	Mid-depth		7,100			
	Bottom		8,000			
(a) 9:30AM	Surface		3,000			
	Mid-depth		3,700			
	Bottom		6,800			
(a) 9:45AM	Surface		3,650			
	Mid-depth		4,550			
	Bottom		6,600			
(a) 10:00AM	Surface		4,150			
	Mid-depth		6,300			
	Bottom		6,800			
July 27 (a) 9:30AM	Surface		1,500			
	Mid-depth		6,100			
	Bottom		6,200			
(a) 9:45AM	Surface		5,000			
	Mid-depth		5,600			
	Bottom		7,000			

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 27 (a) 10:00AM	Surface		1,900			
	Mid-depth		5,800			
	Bottom		5,900			
(a) 10:15AM	Surface		5,200			
	Mid-depth		5,100			
	Bottom		6,900			
July 29 (a) 11:00AM	Surface		1,130			
	Mid-depth		5,000			
	Bottom		8,900			
(a) 11:15AM	Surface		1,720			
	Mid-depth		3,900			
	Bottom		9,200			
(a) 11:30AM	Surface		1,640			
	Mid-depth		6,300			
	Bottom		7,500			
(a) 11:45AM	Surface		1,830			
	Mid-depth		2,500			
	Bottom		6,400			
(a) 11:45PM	Surface		1,450			
	Mid-depth		6,050			
	Bottom		6,700			
(a) 12:00PM	Surface		2,000			
	Mid-depth		6,800			
	Bottom		6,700			
July 30 12:15AM	Surface		1,850			
	Mid-depth		5,400			
	Bottom		5,200			
July 31 (a) 12:45PM	Surface		2,000			
	Mid-depth		8,300			
	Bottom		14,000			
(a) 1:00PM	Surface		1,800			
	Mid-depth		8,500			
	Bottom		13,900			

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 31 (a) 1:15PM	Surface		3,200			
	Mid-depth		9,100			
	Bottom		11,700			
(a) 1:30PM	Surface		3,300			
	Mid-depth		8,200			
	Bottom		9,500			
(a) 1:45PM	Surface		3,500			
	Mid-depth		8,500			
	Bottom		9,600			
Aug. 1 (a) 2:00PM	Surface		4,100			
	Mid-depth		9,100			
	Bottom		13,300			
(a) 2:15PM	Surface		3,400			
	Mid-depth		10,800			
	Bottom		11,500			
(a) 2:30PM	Surface		3,300			
	Mid-depth		9,000			
	Bottom		9,300			
(a) 2:45PM	Surface		4,000			
	Mid-depth		8,800			
	Bottom		9,800			
Aug. 2 (a) 3:00PM	Surface		1,900			
	Mid-depth		4,700			
	Bottom		5,900			
(a) 3:15PM	Surface		2,700			
	Mid-depth		6,200			
	Bottom		8,300			
(a) 3:30PM	Surface		1,900			
	Mid-depth		6,000			
	Bottom		8,300			
(a) 3:45PM	Surface		4,000			
	Mid-depth		5,000			
	Bottom		7,800			

Table 10 (continued) Tide cycle: two to three hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Aug. 3 (a) 4:00PM	Surface		1,400			
	Mid-depth		6,100			
	Bottom		9,750			
(a) 4:15PM	Surface		1,900			
	Mid-depth		5,700			
	Bottom		7,450			
(a) 4:30PM	Surface		1,900			
	Mid-depth		6,400			
	Bottom		7,200			
(a) 4:45PM	Surface		2,000			
	Mid-depth		6,250			
	Bottom		6,800			
Aug. 5 (a) 5:45PM	Surface		1,300			
	Mid-depth		6,700			
	Bottom		6,800			
(a) 6:00PM	Surface		1,100			
	Mid-depth		5,850			
	Bottom		6,800			
(a) 6:15PM	Surface		1,900			
	Mid-depth		5,850			
	Bottom		6,400			
(a) 6:30PM	Surface		2,400			
	Mid-depth		5,250			
	Bottom		6,300			

Table 11 Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1934						
Oct. 16	Surface	2,650	1,250	1,950	1,425	1,200
2:30PM	Mid-depth	10,100	4,000	3,550	6,050	2,000
	Bottom	13,200	8,050	7,050	13,750	5,900
Oct. 27	Surface	440	455	470	420	380
11:55AM	Mid-depth	5,650	760		880	760
	Bottom	7,350	4,250	2,400	5,150	1,070
Oct. 29	Surface	2,550	2,020	1,950	2,200	1,250
1:30PM	Mid-depth		2,600	9,100	13,800	3,000
	Bottom	15,250	13,500	13,550	15,000	9,750
Oct. 30	Surface	600	610	580	600	690
2:25PM	Mid-depth	13,450	7,280	5,750	10,450	950
	Bottom	14,900	12,280	10,900	15,050	8,150
Nov. 12	Surface	27	20	13	11	16
12:15PM	Mid-depth	3,300	339	27	25	15
	Bottom	1,800	900	237	3,650	19
Nov. 14	Surface	230	95	25	17	14
2:20PM	Mid-depth	4,950	1,800	61	105	15
	Bottom	8,400	2,800	1,950	7,400	16
Nov. 26	Surface	670	345	520	225	165
12:00AM	Mid-depth	9,050	2,350	1,550	10,550	175
	Bottom	15,100	6,850	3,450	1,550	390
Nov. 28	Surface	33	17	14	11	16
2:20PM	Mid-depth	3,900	276	15	16	10
	Bottom	13,350	4,350	1,150	8,050	14
Nov. 29	Surface	10	9	8	8	11
2:20PM	Mid-depth	1,470	74	8	12	12
	Bottom	13,600	1,950	18	7,000	14
Dec. 12	Surface	2,680	1,740	1,650	1,700	1,400
12:25PM	Mid-depth	8,350	4,000	4,350	5,950	1,650
	Bottom	15,850	11,450	8,750	15,050	6,300
Dec. 13	Surface	1,100	425	440	400	400
2:25PM	Mid-depth	6,700	4,600	1,900	1,750	460
	Bottom	7,250	7,100	4,050	9,650	900

Table 11 (continued) Tide cycle: three to four hours after low tide.

Parts per million

Date	Position	Stations				
		8	9	10	11	12
1935						
Jan. 10	Surface	11	8	9		13
12:25PM	Mid-depth	11	10	9		13
	Bottom	10	10	10		42
Jan. 25	Surface				129	
12:20PM	Mid-depth				210	
	Bottom				1,640	
Feb. 8	Surface	200	220	180	133	126
12:15PM	Mid-depth	3,100	1,400	251	190	200
	Bottom	4,650	2,250	300	2,400	1,700
Feb. 25	Surface	262	290	250	310	320
2:10PM	Mid-depth	10,150	3,350	2,140	3,650	365
	Bottom	14,100	6,900	4,600	12,150	2,500
Feb. 26	Surface	150	230	250	440	440
2:15PM	Mid-depth	7,550	640	625	1,500	510
	Bottom	14,200	7,700	5,100	11,900	1,450
Mar. 9, 11, 25, 27, Apr. 7, - Samples from all depths - Maximum 12.						
Apr. 10 (a)	Surface	64				
1:45PM	Mid-depth	850				
	Bottom	4,800				
(a)	Surface	111				
2:00PM	Mid-depth	1,230				
	Bottom	6,650				
(a)	Surface	193				
2:15PM	Mid-depth	700				
	Bottom	1,900				
(a)	Surface	200				
2:30PM	Mid-depth	930				
	Bottom	4,250				
(a)	Surface	137	38		28	9
2:15PM	Mid-depth	2,170	64		51	7
	Bottom	14,400	2,190		4,550	6

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Apr. 11 (a)	Surface	220				
2:45PM	Mid-depth	2,560				
	Bottom	8,750				
(a)	Surface	210				
3:00PM	Mid-depth	3,040				
	Bottom	10,300				
Apr. 23, 25, May 7, 9, 10, - Samples from all depths - Maximum 12.						
May 23	Surface	88	83		85	59
11:35AM	Mid-depth	350				69
	Bottom	470	310		410	91
May 25	Surface	290	230		200	220
12:50PM	Mid-depth	1,050	310		420	270
	Bottom	2,180	570		900	270
May 26	Surface	730	660		510	
3:08PM	Mid-depth	5,850	950		1,050	
	Bottom	7,550	1,900		4,100	
May 27 (a)	Surface	430				
3:15AM	Mid-depth	810				
	Bottom	800				
(a)	Surface					
4:00AM	Mid-depth					
	Bottom				4,650	
(a)	Surface	1,330	1,110		1,100	
4:08PM	Mid-depth	6,400	2,900		3,400	
	Bottom	9,950	3,200		6,250	
May 28 (a)	Surface	790	330			
4:08AM	Mid-depth	330	460			
	Bottom	980	650			
(a)	Surface				490	
5:00AM	Mid-depth				1,010	
	Bottom				2,050	

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
June 4	Surface	500	560		450	
11:00AM	Mid-depth	2,300	630		810	
	Bottom	2,800	900			
June 5	Surface	321	270		220	
11:05AM	Mid-depth	2,050	610		330	
	Bottom	4,100	1,100		3,300	
June 7	Surface	390	330		330	
12:58PM	Mid-depth	6,850	1,700		1,900	
	Bottom	8,800	4,550		6,900	
June 19	Surface	150	170		129	
10:48AM	Mid-depth	420	220		180	
	Bottom	260	220		196	
June 20	Surface	13	9		13	
11:00AM	Mid-depth	14	11		14	
	Bottom	28	17		20	
July 4	Surface	490	580		830	
10:50AM	Mid-depth	5,000	1,000		1,250	
	Bottom	12,600	1,850		4,550	
July 7	Surface	1,700	1,400		1,000	
12:50PM	Mid-depth	1,600			6,500	
	Bottom		3,500		12,700	
July 8	Surface	1,160	950		1,000	
1:18PM	Mid-depth	10,950	8,650		6,350	
	Bottom					
July 10 (a)	Surface	13	8		9	
4:05AM	Mid-depth	13	10		11	
	Bottom	17	20		21	
(a)	Surface	9	5		10	
3:05PM	Mid-depth	10	8		8	
	Bottom	13	9		11	
July 23	Surface	580	640		640	
1:18PM	Mid-depth	9,700	4,200		1,900	
	Bottom	13,650	6,400		10,100	

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
July 30 8:08PM	Surface	2,650	2,700		2,000	
	Mid-depth	6,750	4,550		4,800	
	Bottom	10,250	7,400		8,700	
July 31 9:08AM	Surface	2,500	2,350		2,950	
	Mid-depth	2,350	3,600		3,500	
	Bottom	6,100	3,950		4,850	
Aug. 6 1:18PM	Surface	6,050	6,150		5,700	
	Mid-depth	14,300	10,700		12,900	
	Bottom	14,700	13,500		14,200	
Aug. 7 1:33PM	Surface	3,400	3,200		3,050	
	Mid-depth	13,750	8,400		9,300	
	Bottom	15,500	11,850		14,850	
Aug. 18 10:50AM	Surface	2,200	2,300		1,800	
	Mid-depth	6,200	3,300		4,900	
	Bottom	6,800	4,650		6,550	
Sept. 1 12:35PM	Surface	9,550	7,200		11,700	
	Mid-depth	15,700	14,400		15,100	
	Bottom	15,600	15,600		15,600	
Sept. 2 12:48PM	Surface	8,500	8,700		11,750	
	Mid-depth	15,650	15,500		15,750	
	Bottom	15,650	15,400		15,050	
Sept. 3 1:25PM	Surface	7,500	7,700		7,450	
	Mid-depth	14,150	12,000		13,400	
	Bottom	13,200	11,950		14,100	
Sept.14 10:40AM	Surface	10,850	14,700		8,550	
	Mid-depth	15,500	15,700		15,300	
	Bottom	15,700	7,950			
Sept.16 12:40PM	Surface	11,555	11,650		13,450	
	Mid-depth	15,800	15,800		15,100	
	Bottom	15,350	15,200		15,650	
Oct. 3 12:08PM	Surface	4,550	4,100		3,900	
	Mid-depth	10,600	4,800		7,950	
	Bottom	12,150.	7,800		11,050	

Table 11 (continued) Tide cycle: three to four hours after low tide.

Parts per million

Date	Position	Stations				
		8	9	10	11	12
1935						
Oct. 5	Surface	2,450	2,150		2,850	
1:53PM	Mid-depth	12,350	4,400		4,100	
	Bottom	15,050	11,650		14,050	
Oct. 17	Surface	4,200	2,800		2,600	
12:13PM	Mid-depth	10,900	5,500		4,500	
	Bottom	15,300	10,200		11,400	
Oct. 18	Surface		3,000		2,900	
1:48PM	Mid-depth		8,250		10,500	
	Bottom		12,450		12,900	
Oct. 19	Surface	2,100				
1:55PM	Mid-depth	7,500				
	Bottom	14,700				
Nov. 2	Surface	4,700	2,850			
12:05PM	Mid-depth	10,100	4,150			
	Bottom	12,950	7,450			
Nov. 3	Surface	5,100	5,200		4,450	
1:50PM	Mid-depth	12,250	7,650		10,200	
	Bottom	14,050	11,450		13,050	
Nov. 15	Surface	2,600	2,700		2,150	
11:50AM	Mid-depth	10,600	4,350		4,450	
	Bottom	11,800	7,050		8,000	
Nov. 30	Surface	210	310		46	
11:05AM	Mid-depth	5,500	2,950		440	
	Bottom	6,100	3,800		3,500	
Dec. 2	Surface		8		8	
1:55PM	Mid-depth		9		7	
	Bottom		11		11	
Dec. 3	Surface	11	11		12	
2:05PM	Mid-depth	14	10		12	
	Bottom	15	9		13	
Dec. 14	Surface	3,400	1,250		1,000	
1:05AM	Mid-depth	10,350	6,350		7,250	
	Bottom	10,900	7,600		6,900	

Table 11 (continued) Tide cycle: three to four hours after low tide.

Parts per million

Date	Position	Stations				
		8	9	10	11	12
1935						
Dec. 17	Surface		2,100	1,600	1,200	1,000
2:45PM	Mid-depth		8,650	7,900	7,200	1,700
	Bottom		11,450	8,550	8,800	8,100
Dec. 29	Surface					
11:15AM	Mid-depth		10,100			
	Bottom		10,000			
1936						
Jan. 1	Surface	4,600	3,100	3,400	2,900	2,500
1:55PM	Mid-depth	8,300	6,450	5,450	5,200	2,600
	Bottom	10,350	7,850	7,400	10,200	5,900
Jan. 2	Surface	6,050	5,950	7,950		
2:45PM	Mid-depth	8,300	8,850	9,000		
	Bottom	9,750	10,800	10,900		
Feb. 12	Surface			1,250		
12:30PM	Mid-depth			1,900		
	Bottom			3,700		
Feb. 13	Surface		1,100	600		
1:19PM	Mid-depth		7,350	2,400		
	Bottom		11,550	4,400		
Mar. 12, 13, 26, 27, 28, 29, Apr. 24, 25, 26, 27, 28, - Samples from all depths - Maximum 20.						
Apr. 29	Surface		40		6	
3:20PM	Mid-depth		140		15	
	Bottom		1,800		650	
May 3, 11, 19, 20, - Samples from all depths - Maximum 10 - Except: Sta. 9, May 11,- B-115.						
May 21 (a)	Surface		4		5	
8:05AM	Mid-depth		5		8	
	Bottom		12		8	
(a)	Surface		6		7	
8:05PM	Mid-depth		5		5	
	Bottom		9		4	

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million — Stations 8	9	10	11	12
1936						
May 21 (a)	Surface		36		23	
9:05PM	Mid-depth		50		67	
	Bottom		80		73	
May 28 (a)	Surface		1,320		1,360	
3:05PM	Mid-depth		5,300		4,650	
	Bottom		7,200		5,100	
May 29	Surface		1,350		10,100	
3:05AM	Mid-depth		2,400		8,500	
	Bottom		7,800		10,450	
June 3 (a)	Surface		500		500	
7:05AM	Mid-depth		2,600		3,900	
	Bottom		4,200		4,100	
(a)	Surface		1,300		9,650	
7:05PM	Mid-depth		5,850		2,350	
	Bottom		7,200		3,150	
June 9 (a)	Surface		1,300		1,100	
11:05AM	Mid-depth		4,850		2,300	
	Bottom		6,000		5,300	
(a)	Surface		7,550		2,350	
11:05PM	Mid-depth		7,600		6,400	
	Bottom		9,100		7,600	
Dec. 3	Surface	4,100	3,400	3,400	4,600	3,000
11:50AM	Mid-depth	5,600	5,800	4,600	5,050	4,250
	Bottom	5,800	6,200	4,250	5,500	3,050
Dec. 8	Surface	3,400	1,700	3,650	2,550	1,300
4:25PM	Mid-depth	5,400	3,900	5,000	4,300	3,900
	Bottom	8,100	3,850	9,750	9,750	10,050
1937						
Apr. 13, 27, May 27, - Samples from all depths - Maximum 7.						
June 10	Surface	22	41		25	
8:54AM	Mid-depth	23	39		24	
	Bottom	21	39		29	

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
June 11 (a)	Surface		40			
9:40AM	Mid-depth		61			
	Bottom		88			
(a)	Surface		52			
9:50AM	Mid-depth		65			
	Bottom		730			
(a)	Surface		52			
10:00AM	Mid-depth		124			
	Bottom		90			
(a)	Surface		66			
10:10AM	Mid-depth		270			
	Bottom		270			
(a)	Surface		93			
10:20AM	Mid-depth		230			
	Bottom		240			
(a)	Surface		121			
10:30AM	Mid-depth		320			
	Bottom		290			
June 23	Surface	9	11		9	
8:23AM	Mid-depth	15	11		9	
	Bottom	11	13		11	
June 24	Surface	7	7		7	
8:22AM	Mid-depth	9	7		9	
	Bottom	9	7		9	
July 1 (a)	Surface		820			
2:20PM	Mid-depth		820			
	Bottom		7,000			
(a)	Surface		820			
2:30PM	Mid-depth		1,300			
	Bottom		7,200			
(a)	Surface		240			
1:20PM	Mid-depth		2,300			
	Bottom		3,700			

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 1 (a) 1:30PM	Surface		280			
	Mid-depth		1,900			
	Bottom		3,600			
(a) 1:40PM	Surface		460			
	Mid-depth		2,000			
	Bottom		4,200			
(a) 1:50PM	Surface		280			
	Mid-depth		2,600			
	Bottom		3,500			
(a) 2:00PM	Surface		300			
	Mid-depth		2,500			
	Bottom		3,900			
(a) 2:10PM	Surface		780			
	Mid-depth		5,200			
	Bottom		5,300			
July 10 (a) 10:00AM	Surface		1,900			
	Mid-depth		3,900			
	Bottom		4,000			
(a) 10:10AM	Surface		1,800			
	Mid-depth		5,200			
	Bottom		4,200			
July 12 (a) 11:00AM	Surface		3,300			
	Mid-depth		4,400			
	Bottom		5,300			
(a) 11:15AM	Surface		1,900			
	Mid-depth		5,400			
	Bottom		5,800			
(a) 11:30AM	Surface		2,500			
	Mid-depth		8,200			
	Bottom		8,600			
(a) 11:45AM	Surface		2,800			
	Mid-depth		9,500			
	Bottom		9,600			

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 14 (a)	Surface		300			
12:45PM	Mid-depth		4,000			
	Bottom		3,700			
(a)	Surface		420			
1:00PM	Mid-depth		4,600			
	Bottom		5,100			
(a)	Surface		780			
1:15PM	Mid-depth		4,400			
	Bottom		5,600			
(a)	Surface		480			
1:30PM	Mid-depth		3,700			
	Bottom		4,600			
July 20 (a)	Surface		3,800			
6:00AM	Mid-depth		6,200			
	Bottom		7,100			
(a)	Surface		4,500			
6:15AM	Mid-depth		6,200			
	Bottom		6,900			
(a)	Surface		4,300			
6:30AM	Mid-depth		6,150			
	Bottom		7,200			
(a)	Surface		1,600			
5:45PM	Mid-depth		8,000			
	Bottom		8,500			
(a)	Surface		2,150			
6:00PM	Mid-depth		8,000			
	Bottom		8,100			
July 23 (a)	Surface		1,100			
8:00AM	Mid-depth		4,300			
	Bottom		4,900			
(a)	Surface		1,300			
8:10AM	Mid-depth		4,550			
	Bottom		4,700			

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 23 (a) 8:20AM	Surface		1,400			
	Mid-depth		3,450			
	Bottom		4,350			
(a) 8:30AM	Surface		1,400			
	Mid-depth		3,500			
	Bottom		3,550			
(a) 8:40AM	Surface		1,600			
	Mid-depth		3,950			
	Bottom		4,500			
July 26 (a) 10:15AM	Surface		4,550			
	Mid-depth		5,450			
	Bottom		7,200			
(a) 10:30AM	Surface		4,800			
	Mid-depth		7,750			
	Bottom		6,900			
(a) 10:45AM	Surface		5,200			
	Mid-depth		9,050			
	Bottom		6,550			
(a) 11:00AM	Surface		6,000			
	Mid-depth		8,950			
	Bottom		6,500			
July 27 (a) 10:30AM	Surface		2,900			
	Mid-depth		4,800			
	Bottom		6,300			
(a) 10:45AM	Surface		3,300			
	Mid-depth		6,200			
	Bottom		6,000			
(a) 11:00AM	Surface		3,300			
	Mid-depth		5,400			
	Bottom		5,400			
(a) 11:15AM	Surface		2,100			
	Mid-depth		5,700			
	Bottom		5,700			

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 28	Surface		2,500			
12:00AM	Mid-depth		5,100			
	Bottom		8,400			
July 29 (a)	Surface		1,870			
12:00AM	Mid-depth		5,400			
	Bottom		8,000			
(a)	Surface		2,040			
12:15PM	Mid-depth		4,900			
	Bottom		4,000			
(a)	Surface		2,060			
12:30PM	Mid-depth		5,500			
	Bottom		6,400			
(a)	Surface		2,700			
12:45PM	Mid-depth		4,700			
	Bottom		9,200			
July 30 (a)	Surface		1,950			
12:30AM	Mid-depth		3,800			
	Bottom		5,900			
(a)	Surface		1,750			
12:45AM	Mid-depth		5,500			
	Bottom		6,100			
(a)	Surface		1,600			
1:00AM	Mid-depth		6,100			
	Bottom		6,500			
(a)	Surface		3,250			
1:15AM	Mid-depth		5,600			
	Bottom		6,000			
July 31 (a)	Surface		3,500			
2:00PM	Mid-depth		9,100			
	Bottom		10,900			
(a)	Surface		3,600			
2:15PM	Mid-depth		8,200			
	Bottom		10,500			

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 31 (a)	Surface		4,200			
2:30PM	Mid-depth		11,300			
	Bottom		12,100			
(a)	Surface		4,200			
2:45PM	Mid-depth		8,000			
	Bottom		12,600			
Aug. 1 (a)	Surface		3,800			
3:00PM	Mid-depth		7,600			
	Bottom		9,600			
(a)	Surface		4,300			
3:15PM	Mid-depth		9,000			
	Bottom		11,000			
(a)	Surface		5,100			
3:30PM	Mid-depth		11,800			
	Bottom		11,800			
(a)	Surface		5,200			
3:45PM	Mid-depth		8,800			
	Bottom		11,800			
Aug. 2 (a)	Surface		4,400			
4:00PM	Mid-depth		5,800			
	Bottom		7,700			
(a)	Surface		4,100			
4:15PM	Mid-depth		7,300			
	Bottom		7,900			
(a)	Surface		3,900			
4:30PM	Mid-depth		7,400			
	Bottom		7,400			
(a)	Surface		3,500			
4:45PM	Mid-depth		7,100			
	Bottom		7,600			
Aug. 3 (a)	Surface		3,050			
5:00AM	Mid-depth		5,800			
	Bottom		6,150			

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Aug. 3 (a) 5:15AM	Surface		3,000			
	Mid-depth		6,000			
	Bottom		6,800			
(a) 5:30AM	Surface		4,500			
	Mid-depth		5,800			
	Bottom		6,200			
(a) 5:00PM	Surface		1,900			
	Mid-depth		6,550			
	Bottom		6,900			
(a) 5:15PM	Surface		3,100			
	Mid-depth		7,000			
	Bottom		7,200			
(a) 5:30PM	Surface		2,600			
	Mid-depth		4,200			
	Bottom		6,900			
(a) 5:45PM	Surface		3,400			
	Mid-depth		6,200			
	Bottom		9,300			
Aug. 4 (a) 6:00AM	Surface		2,800			
	Mid-depth		5,550			
	Bottom		6,100			
(a) 6:10AM	Surface		2,900			
	Mid-depth		5,250			
	Bottom		6,000			
(a) 6:20AM	Surface		3,000			
	Mid-depth		5,000			
	Bottom		5,850			
(a) 6:30AM	Surface		3,800			
	Mid-depth		4,800			
	Bottom		5,800			
Aug. 5 (a) 7:00AM	Surface		1,700			
	Mid-depth		4,300			
	Bottom		4,300			

Table 11 (continued) Tide cycle: three to four hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Aug. 5 (a) 7:15AM	Surface		1,400			
	Mid-depth		4,400			
	Bottom		4,300			
(a) 6:45PM	Surface		2,100			
	Mid-depth		5,750			
	Bottom		11,870			
(a) 7:00PM	Surface		1,300			
	Mid-depth		5,650			
	Bottom		6,300			

Table 12 Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1934						
Oct. 15	Surface	4,500	4,100	4,400	4,200	3,675
2:20PM	Mid-depth	12,800	10,000	7,150	9,750	4,700
	Bottom	14,900	11,850	11,050	12,600	8,600
Oct. 28	Surface	880	950	1,000	1,000	950
1:05PM	Mid-depth					
	Bottom	15,000	9,200	6,630	11,200	4,750
Oct. 29 (a)	Surface	3,250	3,260	3,150	2,800	3,500
2:05PM	Mid-depth					
	Bottom	15,100	13,600	14,450	15,150	14,450
(a)	Surface	1,150	13,850	4,400	6,600	7,800
2:50PM	Mid-depth	14,350	13,250	13,900	14,300	13,500
	Bottom	14,920		14,050	14,900	14,300
Nov. 13	Surface	390	345	310	350	475
2:30PM	Mid-depth	5,550	1,300	1,550	1,550	650
	Bottom	9,000	5,900	390	7,750	640
Dec. 11	Surface	2,070	2,010	2,100	1,850	1,380
12:35PM	Mid-depth	13,250	2,950	8,250	4,100	3,400
	Bottom	13,300	12,400	11,200	12,700	9,400
Dec. 28	Surface	2,800	2,750	2,400	760	840
2:25PM	Mid-depth	13,450	11,450	9,800	11,150	5,550
	Bottom	11,850	13,100	12,400	13,500	10,700
1935						
Jan. 9	Surface	920	1,040	660	640	360
12:20PM	Mid-depth	8,650	3,900	3,100	2,600	360
	Bottom	9,500	8,200	3,850	8,000	800
Jan. 11	Surface	6	4	6	6	7
2:25PM	Mid-depth		5	5	5	5
	Bottom		5	5	4	6
Feb. 7	Surface		300	190	200	148
12:25PM	Mid-depth		460	950	700	1,750
	Bottom		2,350	850	1,175	1,820
Feb. 22	Surface	116	179	23	19	23
11:50AM	Mid-depth	8,900	2,450	1,750	1,800	32
	Bottom	12,300	4,900	2,900	8,450	103

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Mar. 10, 24, - Samples from all depths - Maximum 9.						
Apr. 9	Surface	1,210	900		360	280
2:10PM	Mid-depth	11,900	3,700		4,500	280
	Bottom	9,550	11,200		12,100	2,420
Apr. 10 (a)	Surface	190				
2:45PM	Mid-depth	1,430				
	Bottom	4,100				
(a)	Surface	290				
3:00PM	Mid-depth	3,010				
	Bottom	13,600				
(a)	Surface	220				
3:15PM	Mid-depth	8,400				
	Bottom	6,450				
(a)	Surface	280				
3:30PM	Mid-depth	11,700				
	Bottom	12,550				
May 6, 8, - Samples from all depths - Maximum 8.						
May 22	Surface	288	420		380	360
11:50AM	Mid-depth	620	530		500	410
	Bottom	620	540		580	530
May 24	Surface	790	800		800	600
1:20PM	Mid-depth	3,300	3,400		1,300	1,100
	Bottom	3,050	1,500		3,550	1,250
May 26	Surface	1,520	1,480		940	
4:08PM	Mid-depth	11,850	8,900		11,600	
	Bottom	11,850	10,200		10,000	
May 27 (a)	Surface	820	780			
4:08AM	Mid-depth	4,800	1,300			
	Bottom	6,400	3,150			
(a)	Surface	7,550	3,850		2,550	
5:08PM	Mid-depth	12,650	9,950		10,400	
	Bottom	11,000	11,800		11,850	

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
May 28	Surface	660	540			
5:08AM	Mid-depth	1,550	1,150			
	Bottom	2,400	1,500			
June 2	Surface	900	800		630	
9:19AM	Mid-depth	1,750	1,900		1,400	
	Bottom	2,050	1,900		2,000	
June 6	Surface	780	750		580	
12:55PM	Mid-depth	9,200	4,900		4,800	
	Bottom	7,400	8,100		9,250	
June 21	Surface	15	17		16	
1:08PM	Mid-depth	15	19		18	
	Bottom	18	20		21	
June 22	Surface	11	10		25	
1:05PM	Mid-depth	13	11		21	
	Bottom	13	15		29	
July 6	Surface	3,050	2,700		2,750	
1:10PM	Mid-depth	12,850	8,450		10,300	
	Bottom	13,150	11,800		12,100	
July 10 (a)	Surface	11	10		9	
5:05AM	Mid-depth	15	10		10	
	Bottom	16	13		21	
(a)	Surface	9	10		12	
4:05PM	Mid-depth	16	7		8	
	Bottom	11	12		14	
July 19	Surface	920	760		840	
10:45AM	Mid-depth	1,500	1,400		1,200	
	Bottom	1,600	1,450		1,450	
July 20	Surface	540	840		720	
11:20AM	Mid-depth	2,300	1,000		1,950	
	Bottom	4,650	2,000		3,700	
July 22	Surface	2,200	2,150		1,800	
1:15PM	Mid-depth	10,850	4,050		5,800	
	Bottom	14,300	10,150		10,250	

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
July 30	Surface	4,400	3,500		2,950	
9:08PM	Mid-depth	9,750	7,000		4,800	
	Bottom	11,200	8,100		5,300	
July 31	Surface	2,900	3,000		3,800	
10:08AM	Mid-depth	6,600	7,000		7,650	
	Bottom	8,050	7,000		9,600	
Aug. 2	Surface	5,100	2,950		3,500	
11:09AM	Mid-depth	10,950	9,300		8,150	
	Bottom	10,250	8,850		9,850	
Aug. 3	Surface	3,850	3,600		3,000	
11:20AM	Mid-depth	11,950	5,300		10,000	
	Bottom	15,000	11,200		11,800	
Aug. 4	Surface	4,600	4,300		3,500	
12:50PM	Mid-depth	14,300	11,500		11,500	
	Bottom	14,200	12,600		13,700	
Aug. 5	Surface	4,850	5,050		6,100	
12:55PM	Mid-depth	12,700	5,100		12,450	
	Bottom	14,150	11,100		13,750	
Aug. 17	Surface	4,850	3,900		3,000	
11:20AM	Mid-depth	14,300	10,900		12,700	
	Bottom	14,500	13,100		13,400	
Aug. 19	Surface	6,150	5,800		4,800	
12:50PM	Mid-depth	13,550	11,400		12,050	
	Bottom	13,750	12,700		13,150	
Aug. 20	Surface	5,400	4,450		4,100	
1:23PM	Mid-depth	12,300	7,300		8,150	
	Bottom	12,290	11,200		10,200	
Sept.12	Surface	7,700	6,800		7,100	
10:45AM	Mid-depth	14,550	14,250		15,100	
	Bottom	14,500	12,500		15,050	
Sept.13	Surface	13,600	12,800		15,400	
11:05AM	Mid-depth	16,300	16,200		16,000	
	Bottom	16,200	16,100		16,200	

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Sept.14	Surface	16,300	16,050		14,500	
12:35PM	Mid-depth	16,600	16,200		16,350	
	Bottom	16,650	16,500		16,200	
Sept.15	Surface	4,400	4,400		4,450	
12:50PM	Mid-depth	4,450	4,400		4,450	
	Bottom	4,350	4,500		4,400	
Sept.16	Surface	14,500	15,100		15,900	
1:35PM	Mid-depth	16,250	16,500		16,200	
	Bottom	16,750	16,450		16,350	
Sept.26	Surface	3,600	8,700			
10:53AM	Mid-depth	12,700	15,200		14,900	
	Bottom	13,600	14,900		15,450	
Sept.29	Surface	9,100	12,750		12,750	
11:43AM	Mid-depth	15,700	15,100		16,250	
	Bottom	16,300	16,050		16,100	
Oct. 2	Surface	3,000	2,800		3,500	
11:48AM	Mid-depth	6,000	3,900		4,500	
	Bottom	10,000	7,500		7,500	
Oct. 4	Surface				3,000	
1:45PM	Mid-depth				11,800	
	Bottom				13,700	
Oct. 16	Surface	9,600	6,300		7,900	
12:13PM	Mid-depth	14,800	13,200		8,600	
	Bottom	9,650	14,250		13,850	
Oct. 18	Surface	6,750				
1:55PM	Mid-depth	12,750				
	Bottom	13,650				
Nov. 1	Surface	6,250	5,150		5,550	
12:20PM	Mid-depth	13,600	12,000		10,450	
	Bottom	13,150	12,150		12,650	
Nov. 16	Surface	3,950	2,850		1,600	
1:45PM	Mid-depth	11,200	10,200		9,300	
	Bottom	11,300	10,050		10,400	

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1935						
Nov. 29 11:20AM	Surface				700	
	Mid-depth				3,500	
	Bottom				8,400	
Dec. 2 2:00PM	Surface	11				
	Mid-depth	11				
	Bottom	15				
Dec. 13 11:05AM	Surface	2,450	2,100		1,100	
	Mid-depth	10,800	4,300		6,400	
	Bottom	10,400	7,600		9,500	
Dec. 16 2:05PM	Surface	3,350	4,750		2,150	
	Mid-depth	10,800	9,950		8,650	
	Bottom	11,200	10,400		10,150	
Dec. 17 2:50PM	Surface	850				
	Mid-depth	12,200				
	Bottom	10,500				
1936						
Jan. 21 7:00AM	Surface					2,000
	Mid-depth					9,900
	Bottom					11,200
Jan. 22 7:55AM	Surface			2,350	4,450	4,700
	Mid-depth			10,600	11,650	2,250
	Bottom			11,800	11,850	10,900
Jan. 23 8:41AM	Surface				220	260
	Mid-depth				8,350	310
	Bottom				7,250	4,050
Jan. 24 9:16AM	Surface					27
	Mid-depth					26
	Bottom					27
Jan. 26 10:50AM	Surface	2,400				
	Mid-depth	9,850				
	Bottom	11,550				
Jan. 27 10:35AM	Surface	4,250				
	Mid-depth	10,100				
	Bottom	11,800				

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations				
		8	9	10	11	12
1936						
Jan. 28 12:38PM	Surface	1,450				
	Mid-depth	6,350				
	Bottom	7,550				
Feb. 6 8:45AM	Surface	1,400				
	Mid-depth	6,300				
	Bottom	9,200				
Feb. 7 9:20AM	Surface			2,250		
	Mid-depth			9,850		
	Bottom			7,400		
Feb. 8 10:05AM	Surface		2,900			
	Mid-depth		7,100			
	Bottom		8,350			
Feb. 10 11:20AM	Surface		3,500	2,800		
	Mid-depth		11,000	5,350		
	Bottom		11,050	10,750		
Feb. 11 12:00AM	Surface			1,850		
	Mid-depth			2,900		
	Bottom			8,900		
Feb. 12 12:40PM	Surface		1,550			
	Mid-depth		5,950			
	Bottom		8,500			
Feb. 24 10:35AM	Surface			3,300	2,600	
	Mid-depth			12,400	11,600	
	Bottom			12,650	13,600	
Feb. 25 11:23AM	Surface		4,050	3,250	3,200	
	Mid-depth		4,400	8,000	6,100	
	Bottom		12,750	8,000	13,100	
Feb. 26 12:15PM	Surface		1,850	1,600	1,150	
	Mid-depth		6,250	4,700	1,750	
	Bottom		4,450	7,600	5,950	
Feb. 27 1:10PM	Surface		3,100	2,550	1,500	
	Mid-depth		9,600	9,900	11,100	
	Bottom		12,300	11,550	10,400	

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
Mar. 4	Surface	5,450	3,350	3,100	4,750	600
7:00AM	Mid-depth	13,300	13,900	13,350	12,050	7,800
	Bottom	13,950	13,800	12,350	12,450	11,250
Mar. 5	Surface	3,600	3,400	4,400	2,300	1,200
7:47AM	Mid-depth	11,550	12,400	12,000	12,300	9,500
	Bottom	11,350	12,800	12,600	13,200	11,300
Mar. 6	Surface	1,900	3,200	2,200	1,800	750
8:32AM	Mid-depth	12,350	12,000	10,400	10,100	6,750
	Bottom	10,950	11,200	11,400	13,700	6,800
Mar. 7	Surface	2,500	1,900	1,000	660	200
9:09AM	Mid-depth	10,500	9,900	6,000	4,550	6,250
	Bottom	11,500	9,800	9,800	10,500	7,900
Mar. 8	Surface	2,600	1,700	4,000	2,000	520
9:44AM	Mid-depth	12,350	11,900	9,300	12,000	4,200
	Bottom	12,600	11,700	11,450	10,100	10,900
Mar. 26, 28, Apr. 14, 15, 16, 17, 21, 22, 23, - Samples from all depths - Maximum 8.						
Apr. 24 (a)	Surface	3	3			
11:22AM	Mid-depth	3	3			
	Bottom	3				
(a)	Surface		20		17	
11:50PM	Mid-depth		45		23	
	Bottom		76		59	
Apr. 26 (a)	Surface		11		12	
1:50AM	Mid-depth		15		11	
	Bottom		19		27	
(a)	Surface	3	2		4	
2:19PM	Mid-depth	3	3		3	
	Bottom	3	3		4	
(a)	Surface		4		4	
2:05PM	Mid-depth		5		4	
	Bottom		4		7	

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million — Stations 8	9	10	11	12
1936						
Apr. 27	Surface					
3:05PM	Mid-depth		7		5	
	Bottom		25		15	
Apr. 28	Surface					
4:20PM	Mid-depth		7		33	
	Bottom		189		230	
May 1	Surface	17	7		16	
6:44AM	Mid-depth	162	27		9	
	Bottom	510	340		29	
May 2	Surface	10	6		9	
7:10AM	Mid-depth	251	50		10	
	Bottom	630	530		235	
May 4, 5, 6, 7, 8, 9, 10, - Samples from all depths - Maximum 10.						
May 11 (a)	Surface	7	5		6	
12:55PM	Mid-depth	6	4		5	
	Bottom	5	5		14	
(a)	Surface		4		4	
12:25PM	Mid-depth		3		5	
	Bottom		4		5	
(a)	Surface		4		6	
1:05PM	Mid-depth		4		6	
	Bottom		6		10	
(a)	Surface		6		4	
12:20AM	Mid-depth		33		3	
	Bottom		940		54	
May 12	Surface	10	8		10	
2:05PM	Mid-depth	18	23		14	
	Bottom	123	50		26	
May 13	Surface	119	22		17	
2:43PM	Mid-depth	2,400	920		43	
	Bottom	2,000	6,900		3,800	
May 17	Surface	6	6		10	
5:59AM	Mid-depth	6	6		9	
	Bottom	6	6		8	

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
May 21 (a)	Surface		5		4	
9:05AM	Mid-depth		7		14	
	Bottom		10		20	
(a)	Surface	4	8		6	
9:30AM	Mid-depth	7	10		10	
	Bottom	8	11		9	
(a)	Surface		780		280	
10:05PM	Mid-depth		4,900		920	
	Bottom		4,750		1,100	
May 22, 23, - Samples from all depths - Maximum 9.						
May 24	Surface	31	13		35	
12:23PM	Mid-depth	13	11		22	
	Bottom	15	18		29	
May 25	Surface	18	31		96	
1:20PM	Mid-depth	21	29		93	
	Bottom	27				
May 26	Surface	690	680		770	
2:17PM	Mid-depth	3,100	1,250		1,250	
	Bottom	6,000	5,700		4,700	
May 27	Surface	1,200	1,050		950	
3:20PM	Mid-depth	3,300	5,700		4,550	
	Bottom	7,600	7,000		7,750	
May 28 (a)	Surface	750	950		800	
4:11PM	Mid-depth	3,700	2,400		1,200	
	Bottom	5,700	3,100		4,600	
(a)	Surface		1,150		1,160	
4:05PM	Mid-depth		4,850		5,200	
	Bottom		7,750		5,050	
May 29 (a)	Surface	650	700		650	
4:27AM	Mid-depth	2,600	4,850		5,200	
	Bottom	6,350	4,000		6,100	
(a)	Surface		6,950		6,150	
4:05AM	Mid-depth		11,300		9,900	
	Bottom		10,950		10,900	

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1936						
May 30	Surface	620	240		410	
6:12AM	Mid-depth	1,550	950		1,550	
	Bottom	4,200	4,900		5,600	
May 31	Surface	530	520		680	
6:18AM	Mid-depth	4,350	3,050		2,800	
	Bottom	6,600	5,300		5,550	
June 1	Surface	1,300	1,150		1,150	
7:02AM	Mid-depth	4,500	4,900		1,750	
	Bottom	5,300	6,150		3,200	
June 2	Surface	950	1,150		1,250	
7:49AM	Mid-depth	2,500	2,050		1,900	
	Bottom	4,300	2,200		2,200	
June 3 (a)	Surface	1,050	950		1,100	
8:14AM	Mid-depth	5,350	5,850		3,200	
	Bottom	7,150	6,100		6,400	
(a)	Surface		1,550		950	
8:05AM	Mid-depth		2,850		3,600	
	Bottom		4,500		4,800	
(a)	Surface		3,050		5,900	
8:05PM	Mid-depth		8,950		4,650	
	Bottom		9,550		9,800	
June 9	Surface		2,400		2,980	
12:05PM	Mid-depth		4,400		3,450	
	Bottom		6,700		7,000	
June 10	Surface		4,400		4,950	
12:05AM	Mid-depth		6,000		8,950	
	Bottom		9,000		11,100	
Nov. 26	Surface	10,800	11,200	14,600	6,900	13,700
6:50AM	Mid-depth	14,100	15,000	14,600	13,950	13,650
	Bottom	14,200	14,600	14,000	13,600	13,600
1937						
Mar. 21	Surface	740	900		880	
10:55AM	Mid-depth	1,000	900		900	
	Bottom	1,000	900		1,000	

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Apr. 2	Surface	1,000	900		700	
1:58PM	Mid-depth	4,400	7,500		4,500	
	Bottom	8,900	8,600		4,600	
Apr. 25, 27, May 25, 26, - Samples from all depths - Maximum 5.						
June 11 (a)	Surface		120			
10:40AM	Mid-depth		310			
	Bottom		230			
(a)	Surface		190			
10:50AM	Mid-depth		360			
	Bottom		380			
(a)	Surface		230			
11:00AM	Mid-depth		330			
	Bottom		370			
(a)	Surface		520			
11:10AM	Mid-depth		1,520			
	Bottom		1,500			
(a)	Surface		1,330			
11:20AM	Mid-depth		2,700			
	Bottom		2,200			
(a)	Surface		2,080			
11:30AM	Mid-depth		6,650			
	Bottom		8,100			
June 22	Surface	17	17		11	
8:16AM	Mid-depth	17	15		13	
	Bottom	21	21		19	
July 7	Surface	320	400		240	
8:18AM	Mid-depth	2,400	1,300		1,100	
	Bottom	2,900	1,000		1,000	
July 8	Surface	210	170		150	
8:35AM	Mid-depth	790	920		520	
	Bottom	810	940		770	
July 10 (a)	Surface		2,600			
10:20AM	Mid-depth		5,400			
	Bottom		5,500			

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 10 (a) 10:30AM	Surface		2,800			
	Mid-depth		6,000			
	Bottom		6,200			
(a) 10:40AM	Surface		2,500			
	Mid-depth		7,400			
	Bottom		7,500			
(a) 10:50AM	Surface		3,700			
	Mid-depth		8,800			
	Bottom		8,900			
(a) 11:00AM	Surface		3,100			
	Mid-depth		10,500			
	Bottom		11,000			
(a) 11:10AM	Surface		3,400			
	Mid-depth		12,300			
	Bottom		12,300			
July 12 (a) 12:00AM	Surface		4,800			
	Mid-depth		8,800			
	Bottom		9,900			
(a) 12:15PM	Surface		3,900			
	Mid-depth		9,200			
	Bottom		11,800			
(a) 12:30PM	Surface		4,000			
	Mid-depth		12,100			
	Bottom		13,000			
(a) 12:45PM	Surface		6,900			
	Mid-depth		13,800			
	Bottom		11,500			
July 13 (a) 1:00PM	Surface		2,400			
	Mid-depth		10,000			
	Bottom		11,300			
(a) 1:10PM	Surface		3,000			
	Mid-depth		8,600			
	Bottom		8,000			

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 13 (a)	Surface		4,000			
1:20PM	Mid-depth		7,700			
	Bottom		8,400			
(a)	Surface		2,300			
1:30PM	Mid-depth		9,200			
	Bottom		9,400			
(a)	Surface		2,800			
1:40PM	Mid-depth		8,500			
	Bottom		8,400			
July 14 (a)	Surface		400			
1:45PM	Mid-depth		3,700			
	Bottom		5,300			
(a)	Surface		5,400			
2:00PM	Mid-depth		8,600			
	Bottom		8,500			
(a)	Surface		1,300			
2:15PM	Mid-depth		7,500			
	Bottom		8,500			
(a)	Surface		1,400			
2:30PM	Mid-depth		6,700			
	Bottom		7,200			
July 17 (a)	Surface		3,400			
5:00AM	Mid-depth		10,700			
	Bottom		11,600			
(a)	Surface		3,900			
5:10AM	Mid-depth		10,900			
	Bottom		12,300			
July 20 (a)	Surface		4,700			
6:45AM	Mid-depth		6,750			
	Bottom		7,500			
(a)	Surface		5,050			
7:00AM	Mid-depth		5,650			
	Bottom		7,300			

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 20 (a) 7:15AM	Surface		3,850			
	Mid-depth		5,650			
	Bottom		8,700			
(a) 7:30AM	Surface		4,350			
	Mid-depth		6,800			
	Bottom		8,700			
July 21 (a) 7:30AM	Surface		1,900			
	Mid-depth		6,150			
	Bottom		7,400			
(a) 7:40AM	Surface		2,000			
	Mid-depth		7,000			
	Bottom		7,400			
(a) 7:50AM	Surface		1,700			
	Mid-depth		8,800			
	Bottom		9,300			
(a) 8:00AM	Surface		2,600			
	Mid-depth		6,000			
	Bottom		8,000			
(a) 8:10AM	Surface		2,800			
	Mid-depth		8,500			
	Bottom		8,600			
July 23 (a) 8:50AM	Surface		1,800			
	Mid-depth		3,650			
	Bottom		4,400			
(a) 9:00AM	Surface		1,700			
	Mid-depth		3,900			
	Bottom		3,500			
(a) 9:10AM	Surface		2,100			
	Mid-depth		5,800			
	Bottom		5,400			
(a) 9:20AM	Surface		2,200			
	Mid-depth		6,200			
	Bottom		6,200			

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 23 (a)	Surface		2,000			
9:30AM	Mid-depth		5,900			
	Bottom		6,400			
July 25 (a)	Surface		2,900			
10:00AM	Mid-depth		8,000			
	Bottom		8,800			
(a)	Surface		3,700			
10:10AM	Mid-depth		9,400			
	Bottom		9,800			
(a)	Surface		3,800			
10:20AM	Mid-depth		7,900			
	Bottom		11,400			
(a)	Surface		4,700			
10:30AM	Mid-depth		10,300			
	Bottom		10,300			
(a)	Surface		5,200			
10:40AM	Mid-depth		10,000			
	Bottom		10,800			
July 26 (a)	Surface		6,100			
11:15AM	Mid-depth		11,150			
	Bottom		11,400			
(a)	Surface		7,950			
11:30AM	Mid-depth		11,250			
	Bottom		12,550			
(a)	Surface		7,600			
11:45AM	Mid-depth		11,900			
	Bottom		12,100			
(a)	Surface		8,950			
12:00AM	Mid-depth		12,400			
	Bottom		12,100			
July 27 (a)	Surface		3,500			
11:30AM	Mid-depth		5,800			
	Bottom		6,000			

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 27 (a) 11:45AM	Surface		3,400			
	Mid-depth		5,800			
	Bottom		6,900			
(a) 12:00AM	Surface		4,100			
	Mid-depth		8,100			
	Bottom		8,100			
(a) 12:15PM	Surface		7,500			
	Mid-depth		11,900			
	Bottom		12,500			
July 28 (a) 12:10PM	Surface		3,000			
	Mid-depth		4,500			
	Bottom		10,100			
(a) 12:20PM	Surface		2,700			
	Mid-depth		10,000			
	Bottom		10,600			
(a) 12:30PM	Surface		3,800			
	Mid-depth		10,100			
	Bottom		9,200			
(a) 12:40PM	Surface		3,700			
	Mid-depth		8,500			
	Bottom		10,500			
(a) 12:50PM	Surface		3,600			
	Mid-depth		11,100			
	Bottom		11,900			
(a) 1:00PM	Surface		4,800			
	Mid-depth		11,800			
	Bottom		12,900			
July 29 (a) 1:00PM	Surface		3,000			
	Mid-depth		4,500			
	Bottom		7,800			
(a) 1:15PM	Surface		3,100			
	Mid-depth		7,700			
	Bottom		11,700			

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
July 29 (a)	Surface		4,100			
1:30PM	Mid-depth		11,100			
	Bottom		13,000			
(a)	Surface		4,800			
1:45PM	Mid-depth		12,750			
	Bottom		13,250			
July 30 (a)	Surface		2,750			
1:30AM	Mid-depth		5,500			
	Bottom		5,400			
(a)	Surface		2,000			
1:45AM	Mid-depth		6,000			
	Bottom		5,100			
(a)	Surface		2,900			
2:00AM	Mid-depth		5,700			
	Bottom		5,700			
(a)	Surface		4,600			
2:15AM	Mid-depth		10,200			
	Bottom		8,800			
July 31 (a)	Surface		4,800			
3:00PM	Mid-depth		10,000			
	Bottom		12,800			
(a)	Surface		5,600			
3:15PM	Mid-depth		12,800			
	Bottom		13,300			
(a)	Surface		6,600			
3:30PM	Mid-depth		11,300			
	Bottom		14,200			
(a)	Surface		7,600			
3:45PM	Mid-depth		13,300			
	Bottom		14,100			
Aug. 1 (a)	Surface		6,200			
4:00PM	Mid-depth		12,900			
	Bottom		12,800			

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Aug. 1 (a) 4:15PM	Surface		6,200			
	Mid-depth		9,700			
	Bottom		13,300			
(a) 4:30PM	Surface		9,000			
	Mid-depth		14,100			
	Bottom		13,800			
(a) 4:45PM	Surface		8,200			
	Mid-depth		14,300			
	Bottom		14,300			
Aug. 2 (a) 5:00AM	Surface		5,500			
	Mid-depth		9,700			
	Bottom		10,500			
(a) 5:15AM	Surface		5,800			
	Mid-depth		10,800			
	Bottom		11,200			
(a) 5:00PM	Surface		4,400			
	Mid-depth		5,350			
	Bottom		6,700			
Aug. 3 (a) 5:45AM	Surface		4,450			
	Mid-depth		7,800			
	Bottom		8,100			
(a) 6:00AM	Surface		4,550			
	Mid-depth		7,600			
	Bottom		7,900			
(a) 6:15AM	Surface		5,300			
	Mid-depth		7,800			
	Bottom		7,400			
(a) 6:30AM	Surface		5,400			
	Mid-depth		9,900			
	Bottom		9,800			
(a) 6:00PM	Surface		3,400			
	Mid-depth		5,800			
	Bottom		9,800			

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Aug. 3 (a) 6:15PM	Surface		4,200			
	Mid-depth		9,700			
	Bottom		10,700			
(a) 6:30PM	Surface		5,500			
	Mid-depth		10,900			
	Bottom		12,200			
(a) 6;45PM	Surface		5,400			
	Mid-depth		11,700			
	Bottom		11,300			
Aug. 4 (a) 6:40AM	Surface		3,100			
	Mid-depth		5,400			
	Bottom		6,150			
(a) 6:50AM	Surface		4,100			
	Mid-depth		5,850			
	Bottom		6,950			
(a) 7:00AM	Surface		4,250			
	Mid-depth		6,150			
	Bottom		7,050			
(a) 7:10AM	Surface		3,950			
	Mid-depth		7,150			
	Bottom		7,300			
(a) 7:20AM	Surface		5,100			
	Mid-depth		9,600			
	Bottom		10,400			
Aug. 5 (a) 7:30AM	Surface		1,500			
	Mid-depth		4,000			
	Bottom		4,700			
(a) 7:45AM	Surface		2,700			
	Mid-depth		4,300			
	Bottom		5,500			
(a) 8:00AM	Surface		3,100			
	Mid-depth		4,300			
	Bottom		5,800			

Table 12 (continued) Tide cycle: four to five hours after low tide.

Date	Position	Parts per million Stations 8	9	10	11	12
1937						
Aug. 5 (a) 8:15AM	Surface		3,700			
	Mid-depth		6,800			
	Bottom		7,600			

Bottom Samples from Station 9A taken at or about High tide. Samples taken one minute apart. The majority of these samples fall into Tide Cycle 2, High tide to one hour after; time is given for the first sample.

Parts per million

1937

Apr. 21		Apr. 27		May 3	
8:01AM	2	12:10PM	2	5:00PM	3
	3		4		3
	3		1		3
	3		3		3
	5		3		3
	3		-		3
Apr. 22		Apr. 28		May 4	
8:49AM	3	12:30PM	3	5:52PM	2
	1		3		3
	5		3		3
	3		5		2
	3		3		4
	3		3		2
Apr. 23		Apr. 29		May 5	
9:33AM	3	1:37PM	3	7:02AM	4
	3		3		3
	3		3		3
	3		3		3
	3		3		3
	3		3		3
Apr. 24		Apr. 30		May 6	
10:21AM	3	2:17PM	3	7:01AM	5
	3		3		3
	3		3		3
	3		1		3
	3		3		2
	3		4		2
Apr. 25		May 1		May 7	
10:51AM	3	3:10PM	3	7:55AM	3
	3		3		5
	1		3		3
	4		3		3
	3		2		3
	3		2		1
Apr. 26		May 2		May 8	
11:37AM	3	4:05PM	3	8:52AM	5
	1		4		7
	3		2		11
	3		3		7
	3		3		7
	3		5		6

Bottom samples (continued)

Parts per million

1937

May 9		May 15		May 23	
9:37AM	3	3:11PM	4	9:37AM	5
	3		3		3
	3		3		3
	1		3		3
	3		5		3
	5		3		5
May 10		May 16		May 24	
10:28AM	3	3:40PM	5	10:56AM	3
	2		3		3
	3		3		5
	2		3		3
	2		5		3
	2		3		3
May 11		May 17		May 25	
11:15AM	2	5:20AM	3	11:26AM	3
	3		3		3
	1		1		1
	3		2		3
	2		2		3
	2		3		3
May 12		May 20		May 26	
12:19PM	3	8:03AM	3	11:51AM	3
	1		3		3
	2		3		3
	2		3		3
	1		3		3
	2		5		3
May 13		May 21		May 27	
1:15PM	7	8:52AM	3	12:36PM	3
	1		3		3
	1		3		4
	5		3		2
	3		3		5
	3		3		3
May 14		May 22		May 28	
2:10PM	67	9:41AM	3	1:05PM	3
	153		3		3
	177		3		3
	193		3		5
	155		3		3
	117		2		3

Bottom samples (continued)

Parts per million

1937

May 29		June 4		June 10	
1:58PM	5	6:46AM	2,300	12:29PM	13,450
	4		8,700		13,450
	2		7,200		13,450
	2		10,200		13,550
	3		13,000		13,400
	4		10,000		13,550
May 30		June 5		June 11	
2:41PM	3	7:48AM	3,000	1:08PM	13,200
	2		7,400		13,550
	3		6,000		13,350
	3		7,350		11,750
	3		3,050		13,600
	4		5,700		13,250
May 31		June 6		June 12	
3:34PM	83	8:45AM	11,600	2:04PM	7,200
	35		7,200		12,700
	500		11,900		10,800
	300		12,700		10,900
	460		12,400		13,200
	460		12,700		13,000
June 1		June 7		June 13	
4:24PM	10,300	9:45AM	12,500	2:48PM	11,900
	6,800		12,650		12,600
	6,000		12,100		12,500
	5,500		12,750		12,700
	8,100		7,350		12,700
	5,800		7,650		13,000
June 2		June 8		June 14	
4:43AM	3,000	10:15AM	11,800	4:11PM	12,300
	4,100		9,200		10,100
	4,300		9,550		12,400
	800		10,350		12,300
	2,900		10,150		12,300
	3,300		9,750		12,200
June 3		June 9		June 15	
5:30AM	7,200	11:10AM	9,800	4:10AM	5,850
	5,000		10,250		6,100
	3,900		10,250		9,600
	6,600		10,100		6,800
	5,300		9,400		6,600
	7,000		10,150		7,000

Bottom samples (continued)

Parts per million

1937

June 16		June 22		June 28	
5:15AM	10,000	10:28AM	9,700	2:29PM	11,900
	9,500		10,400		12,900
	8,000		8,000		10,950
	10,500		9,300		13,550
	7,300		10,000		13,700
	10,250		8,700		13,650
June 17		June 23		June 29	
6:15AM	11,300	11:23AM	7,100	3:24PM	14,000
	11,100		5,600		14,150
	11,800		5,700		14,150
	6,400		5,600		14,400
	12,000		7,800		13,850
	11,700		6,300		14,300
June 18		June 24		June 30	
7:03AM	11,100	11:48AM	6,400	3:20AM	12,850
	9,400		1,000		13,050
	11,500		4,900		13,200
	11,700		3,500		13,250
	10,700		1,500		13,200
	11,000		1,000		13,100
June 19		June 25		July 1	
8:12AM	12,100	12:33PM	6,900	4:19AM	7,600
	11,950		8,700		13,300
	11,100		8,000		13,000
	12,100		8,000		13,400
	11,100		7,800		7,800
	12,500		9,800		13,300
June 20		June 26		July 2	
9:14AM	12,900	1:13PM	11,400	5:30AM	10,700
	12,300		12,100		9,300
	12,900		11,600		11,000
	12,900		12,300		11,700
	11,800		11,800		12,200
	12,600		12,600		12,300
June 21		June 27		July 3	
9:47AM	8,100	1:50PM	12,500	6:30AM	7,200
	9,300		6,400		4,900
	9,300		13,400		6,700
	8,600		13,400		9,300
	9,800		13,300		7,800
	3,500		13,500		8,200

Bottom samples (continued)

Parts per million

1937

July 4		July 10		July 16	
7:23AM	9,550	12:33PM	14,550	6:05AM	12,300
	9,500		14,800		13,000
	8,900		14,400		12,200
	9,400		14,500		12,400
	8,400		14,700		11,300
	5,100		14,850		12,300
July 5		July 11		July 17	
8:38AM	10,800	1:31PM	14,400	6:48AM	13,300
	11,300		15,000		13,300
	11,600		15,100		12,800
	11,500		14,900		13,000
	11,200		14,900		12,500
	11,200		14,800		13,000
July 6		July 12		July 18	
9:26AM	11,000	1:49AM	14,900	7:42AM	13,300
	12,100		15,150		13,300
	12,300		14,850		13,300
	12,500		14,950		13,300
	12,400		14,850		13,300
	12,400		14,750		13,050
July 7		July 13		July 19	
10:20AM	12,200	2:55AM	14,300	8:54AM	14,500
	12,500		14,400		14,750
	12,800		14,600		14,600
	12,400		14,200		14,450
	12,700		14,600		14,750
	13,100		14,800		14,600
July 8		July 14		July 20	
11:13AM	13,800	3:50AM	4,750	9:10AM	13,600
	14,300		6,350		13,800
	14,100		7,700		14,100
	13,950		7,300		14,000
	13,700		8,000		14,000
	14,300		8,000		14,100
July 9		July 15		July 21	
12:15PM	14,550	4;47AM	11,900	10:00AM	12,700
	14,950		10,750		13,500
	14,900		11,550		13,200
	15,050		12,550		12,000
	15,000		9,550		13,800
	12,250		12,450		12,600

Bottom samples (continued)

Parts per million

1937

July 22		July 29		Aug. 4	
10:41AM	12,300	3:31PM	15,500	9:34PM	15,750
	13,500		15,400		16,050
	13,400		15,600		16,100
	13,400		15,500		16,100
	11,700		15,400		14,000
	13,400		15,700		16,000
July 23		July 30		Aug. 5	
11:16AM	13,600	4:29PM	15,800	10:36PM	15,900
	14,300		15,900		16,000
	14,300		15,600		16,200
	14,000		15,800		16,100
	14,700		15,700		16,200
	14,200		15,400		15,300
July 24		July 31		Aug. 6	
12:20PM	12,100	5:29PM	14,400	11:11AM	14,900
	12,800		16,000		15,300
	11,700		15,800		15,250
	12,100		15,900		15,350
	13,100		16,000		15,200
	12,900		15,900		15,350
July 25		Aug. 1		Aug. 7	
12:48PM	11,800	6:33PM	15,700	11:30AM	15,200
	12,900		15,900		15,350
	13,300		15,900		15,450
	12,800		16,100		15,400
	11,800		16,100		15,250
	12,200		16,100		15,450
July 26		Aug. 2		Aug. 8	
1:03PM	15,500	7:29PM	15,800	12:27PM	15,950
	15,800		16,000		15,850
	15,900		15,800		16,000
	16,000		15,600		16,000
	16,000		16,000		16,000
	15,800		15,900		15,900
July 27		Aug. 3		Aug. 9	
2:09PM	15,000	8:39PM	16,000	1:14PM	14,100
	15,000		16,400		16,000
	15,300		16,000		16,100
	15,300		16,000		16,200
	15,100		16,000		16,100
	15,400		16,000		16,000

Bottom samples (continued)

Parts per million

1937

Aug. 10		Aug. 16		Aug. 22	
1:59PM	15,050	7:18AM	13,850	11:40AM	15,400
	15,400		13,800		15,400
	15,600		13,900		15,300
	15,700		13,850		15,400
	15,650		13,950		15,600
	15,500		13,850		15,300
Aug. 11		Aug. 17		Aug. 23	
2:47PM	15,400	8:15AM	12,200	12:15PM	16,000
	15,300		14,500		16,100
	15,300		14,450		16,000
	15,450		14,500		15,400
	15,400		15,350		16,100
	15,450		13,700		16,100
Aug. 12		Aug. 18		Aug. 24	
3:53PM	13,950	9:00AM	14,500	12:30PM	14,800
	13,850		14,600		15,300
	14,050		14,450		15,400
	14,000		14,550		15,200
	14,100		14,650		15,400
	13,950		14,550		15,300
Aug. 13		Aug. 19		Aug. 25	
4:28PM	13,900	9:50AM	15,000	1:20PM	15,800
	13,900		15,200		16,000
	14,000		15,200		15,600
	13,700		15,100		14,400
	13,700		15,300		8,000
	13,600		14,900		16,100
Aug. 14		Aug. 20		Aug. 26	
5:16AM	13,450	10:11AM	14,800	2:10PM	15,600
	12,700		14,500		15,900
	14,000		14,800		16,050
	12,350		14,700		16,000
	13,750		14,900		15,400
	13,800		14,900		16,000
Aug. 15		Aug. 21		Aug. 27	
6:03AM	13,300	11:00AM	15,000	2:51AM	14,900
	13,300		14,200		15,100
	13,650		15,400		15,200
	13,150		15,000		15,200
	13,700		15,300		15,600
	13,700		15,300		15,300

Bottom samples (continued)

Parts per million

1937

Aug. 28		Sept. 3		Sept. 9	
3:39AM	13,700	10:01AM	15,400	2:14AM	15,200
	13,200		16,000		15,200
	14,200		14,350		15,500
	13,800		15,300		15,200
	14,100		15,500		15,400
	14,300		15,500		13,500
Aug. 29		Sept. 4		Sept.10	
5:07AM	14,000	10:46AM	15,900	2:38AM	8,800
	14,200		15,850		10,700
	14,300		15,950		8,400
	14,100		14,800		10,700
	14,300		15,900		13,300
	14,600		16,000		10,600
Aug. 30		Sept. 5		Sept.11	
6:09AM	14,400	11:43AM	16,200	3:45AM	12,800
	14,500		16,100		11,200
	14,500		16,100		14,100
	14,400		16,100		14,300
	14,400		16,150		11,800
	14,400		16,150		14,000
Aug. 31		Sept. 6		Sept.12	
7:32AM	14,500	11:44PM	16,100	4:14AM	11,200
	14,700		16,200		11,900
	14,800		16,200		11,300
	14,600		16,150		11,400
	14,600		14,850		12,100
	14,900		16,000		11,800
Sept. 1		Sept. 7		Sept.13	
8:15AM	14,700	12:29AM	14,750	5:10AM	12,800
	15,100		14,950		12,900
	15,100		14,400		13,000
	15,100		14,850		13,700
	15,200		14,850		12,500
	15,100		14,800		12,800
Sept. 2		Sept. 8		Sept.14	
9:25AM	14,150	1:07AM	13,600	6;28AM	12,900
	15,600		13,950		13,900
	15,550		13,900		13,800
	15,700		13,900		12,900
	15,450		13,950		12,000
	12,100		13,900		12,200

Bottom samples (continued)

Parts per million

1937

Sept.15		Sept.21		Sept.29	
7:15AM	9,200	11:57PM	13,350	6:49AM	14,700
	9,500		13,600		14,900
	5,400		13,750		14,850
	8,900		13,350		14,750
	10,500		13,450		14,400
	12,200		13,600		13,900
Sept.16		Sept.24		Sept.30	
7:08AM	12,900	1:37AM	7,800	7:49AM	13,200
	13,000		8,100		13,100
	13,100		8,500		13,000
	13,000		9,500		13,700
	12,950		9,400		13,400
	13,050		9,800		--,---
Sept.17		Sept.25			
9:05AM	12,500	2:07AM	17,300		
	11,400		15,900		
	13,500		17,450		
	12,000		17,150		
	13,100		17,600		
	12,000		17,700		
Sept.18		Sept.26			
9:50AM	15,800	3:42AM	15,400		
	15,500		10,650		
	15,600		17,000		
	15,000		16,650		
	15,400		17,150		
	15,600		17,500		
Sept.19		Sept.27			
10:32PM	13,700	4:22AM	14,950		
	12,500		14,600		
	13,100		15,200		
	13,400		14,600		
	13,800		15,400		
	14,000		15,050		
Sept.20		Sept.28			
10:59PM	14,700	5:57AM	17,200		
	15,100		17,650		
	14,950		17,150		
	15,050		17,550		
	14,650		17,250		
	15,050		17,000		

Simultaneous Samples
Saybrook Highway Bridge, Station 9
September 23, 1936 to March 17, 1937

Samples taken from bottom up, each two feet of depth, numbers start with bottom sample.

Table 1 Tide cycle: one hour before to high tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Sept.30										
8:45AM	15550	16100	16250	16200	16100	14000	14400	12350		
9:00AM	16350	16400	16350	16500	16400	15750	14900		12050	
9:15AM	16550	16600	16700	16800	16750	16700	16100	15450	14050	
9:30AM	16700	16850	16800	16750	16850	16750	16600	16300	14950	
Oct. 1										
9:30AM	17050	17000	17000	17100	17100	16900	16750	16550	15350	
9:45AM	17000	16900	17050	17000	16700	16600	16450	16700	16200	
10:00AM	17100	16900	17000	17200	17050	16850	16700	16950	16800	
10:15AM	17150	17200	17200	17200	17050	17150	16900	16900	16900	16850
Oct. 17										
10:30AM	16050	15550	15500	15950	16100	16250	14350	15700		
11:00AM	16500	16200	16450	16350	16150	16050	15550	16050		
Oct. 19										
12:00AM	11200	10800	10800	10650	8700	6300	4100	1400		
12:30PM	12250	11850	12200	11300	9100	6400	3350	1150		
Oct. 30										
9:15AM	11000	11600	11150	10100	10350	5350	4200	2850		
9:45AM	12350	12750	12600	12550	12250	10900	7350	5450		
Oct. 31										
10:00AM		13750	12800	13150	11800	9600	4800	3650		
10:30AM		13450	14100	14200	13800	13000	9850	3950		

Table 1 (continued) Tide cycle: one hour before to high tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Nov. 3										
1:00PM	8600	9800	10500	10000	9950	8650	5250	2500		
1:30PM	10400	9900	12100	12400	12200	11350	8950	5300		
Nov. 5										
3:00PM	10400	10000	9700	7600	5800	3850	1200	700		
3:30PM	8200	10550	10550	9100	5950	3000	900	700		
Nov. 13										
9:00AM	6900	10150	10850	10700	8650	7150	4300	1600		
9:30AM	8600	11700	11300	11250	11350	10450	7700	5550		
Nov. 14										
10:00AM	7850	9900	10650	10800	7850	2250	630	510		
Nov. 24										
6:00AM	15900	15500	15950	15750	15000	14300	12600			
6:15AM	15650	15350	15200	15350	14450	13650	9600			
Dec. 15										
10:30AM	166	171	210	230	160	160	71	63		
10:45AM	1540	940	260	210	140	100	78	68		
11:00AM	2200	2020	700	270	180	120	90	78		
11:15AM	2400	1550	380	250	140	89	81	85		
Dec. 17										
11:45AM	9900	10000	9600	8900	6250	4950	3550	1550		
12:00AM	9950	10000	10000	6800	6000	4200	2700	1300		
12:15PM	9150	9800	10000	6550	5150	4250	1300	1000		
12:30PM	10350	11000	11850	11400	9000	5800	2700	1200		
Dec. 29										
10:15AM	8700	10300	10550	10200	9800	6700	2650	930		
10:30AM	9850	10450	10350	10050	8250	6350	2800	800		

Table 1 (continued) Tide cycle: one hour before to high tide

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Dec. 29										
10:45AM	9700	10700	11050	10650	10750	8100	5200	1900		
11:00AM	11650	11950	11850	11650	10000	8400	5100	2700		
Dec. 31										
12:00AM	430	450	400	400	100	52	30	24		
12:15PM	460	480	450	370	180	21	15	15		
12:30PM	6800	6500	5000	3350	1250	140	68	47		
12:45PM	6450	6250	5750	3350	550	92	64	35		
1937										
Jan. 12										
9:30AM	870	840	960	600	390	140	42	31		
9:45AM	740	650	560	420	28	19	18	15		
10:00AM	1370	1290	960	710	410	160	23	19		
Jan. 14										
10:45AM	2650	2100	2200	1200	550	240	76	54		
11:00AM	3600	3400	3400	2900	1300	300	96	56		
11:15AM	3350	3600	3600	2750	1200	540	220	83		
11:30AM	2900	3300	2700	2700	1300	770	660	440		
Jan. 27										
10:00AM	2	3	4	4	4	3	4	4		
10:15AM	3	4	4	3	4	4	4	4		
10:30AM	3	4	3	3	3	4	3	5		
10:45AM	3	3	4		4	3	3	3		
Jan. 29										
11:30AM	910	880	780	540	390	84	13	11		
11:45AM	1400	1300	950	860	640	440	270	23		

Table 1 (continued) Tide cycle: one hour before to high tide

Parts per million

Date	Position									
1937	1	2	3	4	5	6	7	8	9	10
Jan. 29										
12:00AM	6750	6800	4600	800	140	31	17	14		
12:15PM	5800	5600	1200	190	33	16	16	15		
Feb. 9										
9:00AM	13650	13100	12450	13000	11650	10950	4750	3300		
Feb. 24										
9:00AM	5	5	5	3	4	5	3	5		
9:15AM	3	5	5	6	4	5	5	5		
9:30AM	5	7	5	5	5	5	5	3		
9:45AM	5	3	5	4	5	7	3	5		
Mar. 3										
2:15PM	3850	3600	3800	3600	2800	990	500	510		
2:30PM	3800	3600	3000	4200	2500	1240	580	560		
2:45PM	3800	3500	3500	3400	2200	1260	580	480		
Mar. 10										
7:45AM	8550	8850	8000	7100	1000	660	620	560		
8:00AM	8400	6100	7900	900	1200	1220	580	820		
8:15AM	9350	10100	9600	5600	1600	610	600	610		
8:30AM	9300	9600	9800	5000	900	610	620	590		
Mar. 17										
1:30PM	13	15	13	13	15	11	13	13		
1:45PM	15	13	15	13	13	13	15	13		
2:00PM	13	13	15	13	15	13	15	13		
2:15PM	13	15	11	13	47	15	13	15		

Table 2 Tide cycle: high tide to one hour after.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Sept.30										
9:45AM	16850	16900	16850	16800	16650	16700	16650	16300	15900	
10:00AM	16900	16900	16950	16900		17100	16850		16100	
10:15AM			17100	17250	17000	17000	16650	16200	16350	
10:30AM	17000	17050	17100	17050	17100	16900	16900	16600	16500	
Oct. 1										
10:30AM	17150	17400	17050	17500	17100	17000	17000	17100	17000	16950
10:45AM	17100	17100	17200	17150	17100	17000	17100	17000	17050	17050
11:00AM	17100	17100	17150	17100	17150	17350	17050	17100	17000	17100
11:15AM	17000	17100	17150	17100	17100	17000	17050	17050	17100	
11:30AM	16950	17100	17000	17100	17000	17150	17050	17100	17100	
Oct. 17										
11:30AM	16800	16450	16800					16700		
12:00AM	16800	16750	16850	17050	16750	16750	16700	16650	16800	
12:30PM	16800	16800	16800	16800	16800	16700	16850	16750	16650	16750
Oct. 18										
12:15PM	9650	8850	8000	7150	5700	2700	950	900		
12:30PM		9050	7900	7350	5900	3650	1950	950		
12:45PM	8300	7400	6800	6400	4550	4000	2050	850		
1:00PM	7700	8200	6800	6500	5000	2650	2100	1250		
Oct. 19										
1:00PM	12900	12650	11450	11150	9800	8000	3800	1500		
1:30PM	11100	11400	10700	10800	8150	6050	1950	1750	1600	
Oct. 27										
8:00AM	13600	13700	13400	12600	12000	7800	6050	4650		
8:30AM	13550	13500	13100	12700	11900	9050	4350	1850		

Table 2 (continued) Tide cycle: high tide to one hour after

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Oct. 30										
10:15AM	12400	12650	12800	12500	11350	8700	7800	3200		
10:45AM	12600	13000	13200	13000	13300	10900	7200	1800		
Oct. 31										
11:00AM	14550	14650	14600	14600	15000	14250	11850	3600		
11:30AM	11550	14500	14200	14250	13400	12850	9050	5850		
Nov. 3										
2:00PM	6500	12200	12700	13100	12600	11000	4500	3100		
2:30PM	13900	11800	9500	12000	10900	8900	5600	3600		
Nov. 5										
4:00PM	11100	11800	11600	9000	6050	3500	1850	900		
4:30PM	11150	11750	11350	9700	7550	4900	1350	1150		
Nov. 13										
10:00AM	9350	12750	12350	11900	11200	7700	3800	2600		
10:30AM	3900	3800	12000	11400	11450	9150	3400	2550		
Nov. 14										
10:30AM	10900	2700	7550	2500	1000	440	270	210		
11:00AM		9850	6150	3350	1150	420	230	160		
11:30AM		850	1000	750	510	220	120	63		
Nov. 24										
6:30AM	15150	15100	15100	15650	14950	13800	8800			
6:45AM		15000	15350	15600	14750	14000	9400			
7:00AM		14950	15050	15050	13350	10850	6800			
7:15AM	14600	14850	15100	15050	13400	7800	6600			
7:30AM	13300	14550	14600	14200	12550	7250	6900			
Dec. 15										
11:30AM	2800	2100	600	190	150	89	65	58		

Table 2 (continued) Tide cycle: high tide to one hour after.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Dec. 15										
11:45AM	2400	2100	1200	800	210	167	133	150		
12:00AM	6600	3800	1900	1300	420	260	79	39		
12:15PM	3350	1800	1200	900	460	240	125	133		
Dec. 17										
12:45PM	10500	10500	11750	2900	5750	3000	1650	1150		
1:00PM	10050	10900	10950	10200	7150	4350	1150	1000		
1:15PM	10950	11750	12350	11050	10500	8100	3600	1150		
1:30PM	10950	11500	12600	11200	9300	5100	1550	1000		
1:45PM	11100	10800	12200	11000	8600	4800	1250	950		
Dec. 29										
11:15AM	11250	11950	12000	10550	9200	7100	4500	2350		
11:30AM	7600	9800	9500	8500	8200	6000	3550	2250		
11:45AM	10300	11500	11800	11000	10350	8350	3200	1900		
12:00AM	10100	11400	11500	11650	10850	7650	2250	1400		
12:15PM	10500	10900	9700	7100	3200	1500	1200	320		
Dec. 31										
1:00PM	6600	6150	6600	3650	310	150	91	84		
1:15PM	6450	5400	2750	1050	21	14	15	12		
1:30PM	6450	5100	2300	1100	26	13	12	13		
1:45PM	6600	6850	2350	1100	85	15	13	13		
2:00PM	5200	5100	1900	900	27	13	12	12		
1937										
Jan. 12										
10:15AM	7000	6600	3200	1450	100	42	27	16		
10:30AM	2900	2050	800	100	17	16	16	15		

Table 2 (continued) Tide cycle: high tide to one hour after.

Parts per million

Date	Position									
1937	1	2	3	4	5	6	7	8	9	10
Jan. 12										
10:45AM	7450	7900	3600	2200	260	22	18	17		
11:00AM	7750	5850	2950	1150	18	18	15	14		
11:15AM	6750	6150	2850	850	19	15	16	15		
Jan. 14										
11:45AM	10700	10500	10300	9950	7900	2900	700	330		
12:00AM	10500	10450	10200	9500	7200	4900	740	390		
12:15PM	10250	9900	10400	9200	7100	4850	700	330		
12:30PM	10650	10700	10350	9200	7600	2000	540	260		
Jan. 27										
11:00AM	3	4	3	3	3	3	4	3		
11:15AM	25	29	18	6	4	3	4	4		
11:30AM	27	40	44	13	5	5	4	4		
11:45AM	27	30	24	27	11	5	3	5		
Jan. 29										
12:30PM	6900	6400	5450	600	90	18	15	15		
12:45PM	7350	6450	3900	430	100	17	14	13		
1:00PM	7350	7350	5700	3350	1120	29	8	6		
1:15PM	7250	7150	4100	1600	180	19	8	7		
Feb. 9										
9:15AM	13250	12650	12500	12700	11900	11350	5800	3850		
9:30AM	13650	12300	13300	13250	11950	11200	6000	3650		
9:45AM	13550	12700	12350	12850	12050	11250	5700	5200		
10:00AM	13000	12150	13950	13200	13000	5700	6650	3450		
10:15AM	11300	11500	12050	11550	10700	7250	3650	2600		

Table 2 (continued) Tide cycle: high tide to one hour after.

Parts per million

Date	Position									
1937	1	2	3	4	5	6	7	8	9	10
Feb. 24										
10:00AM	3	5	3	7	5	5	5	5		
10:15AM	5	5	5	4	5	3	5	4		
10:30AM	5	3	3	6	3	9	5	4		
10:45AM	3	6	5	5	9	6	5	5		
Mar. 3										
3:00PM	9400	8750	8450	4700	1600	600	300	270		
3:15PM	9300	8500	8200	3900	1300	560	260	270		
3:30PM	9800	8900	7600	3400	1200	420	240	170		
3:45PM	9700	9050	8250	5200	1500	380	220	160		
4:00PM	9700	9000	8100	3600	1500	620	200	170		
Mar. 10										
8:45AM	8850	11050	10100	4350	3400	640	600	620		
9:00AM	10350	10300	10600	9200	3950	1900	760	590		
9:15AM	9300	9300	8400	6500	5200	1800	660	730		
9:30AM	9800	9100	8800	7900	6600	5100	880	780		
9:45AM	8400	7900	9000	7400	4500	1480	2400	800		
Mar. 17										
2:30PM	11	11	13	11	13	13	13	13		
2:45PM	15	17	17	19	17	15	16	18		
3:00PM	15	17	15	15	17	17	17	15		
3:15PM	17	15	17	17	15	19	19	19		

Table 3 Tide cycle: one to two hours after high tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Sept.30										
10:45AM	17100	17050	17250	17300	17200	17000	16850	16550	16500	
11:00AM	17050	17100	17150	17000	17100	16950	16800	16800		
11:15AM	16600	17000	17000	17150	16900	16650	16500	15900	15450	
Oct. 1										
11:45AM	16800	16700	16750	18050	15300	16500	16400	16400	16200	
12:00AM	17000	17000	17100	17100	17000	16900	16500	15900	15700	
12:15PM	16800	16900	16900	16450	16450	16500	16500	16300	15400	
12:30PM	16900	16750	17000	16100	16200	16300	16400	12900	13300	
Oct. 17										
1:00PM	17000	16800	16750	16550	16800	16700	16750	16700	16800	16750
1:30PM	16700	16700	16800	16800	16800	16850	16900	16850	16600	16650
Oct. 18										
1:15PM	7500	8250	7200	5350	4050	3000	1750	1250		
1:30PM	6100	7800	6600	5350	4650	2200	1900	1750		
1:45PM		7550	7550	6200	2050	1000	800	700		
2:00PM	7400	6500	7600	2700	1600	850	800	750		
2:15PM	9000	6100	4400	1900	1250	850	750	750		
Oct. 19										
2:00PM	10700	11050	11150	10500	9700	3450	2050	1600	1500	
2:30PM	9700	10650	10650	8050	3400	2000	1300	1150	950	
3:00PM	10800	8900	3700	2150	1000	750	750	700		
Oct. 27										
9:00AM	10250	12200	13800	12900	10500	4300	2850	1300		
9:30AM	12000	13400	12500	10000	6000	2300	900	900		
Oct. 30										
11:15AM	11700	12300	12600	12800	11050	4400	2950	2900		

Table 3 (continued) Tide cycle: one to two hours after high tide .

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Oct. 30										
11:45AM	8650	10200	9250	5800	3550	2000	1150	800		
Oct. 31										
12:00AM	14650	14550	14350	14850	14450	12500	9500	6050		
12:30PM	13950	13850	14250	14800	13550	6350	4600	4400		
1:00PM	11800	12650	12100	9800	5150	3650	3150	2150		
Nov. 3										
3:00PM	11000	6400	8850	11850	11500	10500	7200	3900		
3:30PM	12200	12200	10400	9550	8150	4400	3400	3600		
Nov. 5										
5:00PM	11750	12100	11850	10350	8350	4750	1350	1150		
5:30PM	11200	11900	11500	9900	9100	1800	1600	1500		
Nov. 13										
11:00AM	7650	10650	13000	12850	12350	10000	7250	3000		
11:30AM		12000	11600	12100	11800	10350	5150	3100		
12:00AM	10500	9800	8500	6200	2350	1750	1700	1700		
Nov. 14										
12:00AM	600	760	720	660	620	540	500	440		
12:30PM	600	660	660	620	610	600	610	590		
Nov. 24										
7:45AM	14650	14950	14900	14300	13600	7450	6900			
8:00AM	13600	13200	10000	7900	7050	5950	5500			
8:15AM		10900	8650	7350	6350	5450	4950			
8:30AM	12750	10950	8750	7500	6650	5450	5100			
Dec. 15										
12:30PM	5650	1600	2000	920	600	300	163	49		
12:45PM	193	200	200	140	51	25	21	16		

Table 3 (continued) Tide cycle: one to two hours after high tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Dec. 15										
1:00PM	129	140	140	126	41	29	19	16		
1:15PM	140	141	153	117	51	21	19	17		
1:30PM	178	178	161	117	77	23	19	15		
Dec. 17										
2:00PM	2350	1450	1100	950	550	300	260	210		
2:15PM	900	850	1000	900	550	390	340	290		
2:30PM	700	950	1000	1000	700	460	390	320		
2:45PM	800	900	800	850	350	420	380	340		
Dec. 29										
12:30PM	9600	11300	10500	7800	3850	2150	1050	490		
12:45PM	9900	11000	10000	7400	3100	1300	1200	270		
1:00PM	8500	5200	3000	2000	750	460	76	37		
1:15PM	700	750	800	800	500					
1937										
Jan. 12										
11:30AM	290	320	360	100	64	26	13	20		
11:45AM	240	230	350	240	104	58	47	30		
12:00AM	330	320	410	280	130	57	38	15		
12:15PM	90	162	205	95	56	16	14	14		
12:30PM	350	410	520	420	290	79	35	17		
Jan. 14										
12:45PM	6800	8450	7450	3200	1300	280	180	55		
1:00PM	7400	8800	7200	3000	1300	280	179	63		
1:15PM	7100	7500	4800	2650	1400	340	170	75		
1:30PM	8050	7100	6400	3450	1150	300	97	39		

Table 3 (continued) Tide cycle: one to two hours after high tide.

Parts per million

Date	Position									
1937	1	2	3	4	5	6	7	8	9	10
Jan. 27										
12:00AM	25	24	18	5	4	3	4	3		
12:15PM	7	5	5	4	5	4	5	3		
12:30PM	4	5	3	5	4	5	5	3		
12:45PM	5	4	4	5	4	3	3	4		
1:00PM	4	4	5	5	4	4	5	4		
Jan. 29										
1:30PM	7450	7000	3000	4500	160	31	7	5		
1:45PM	560	730	360	190	78	35	20	11		
Feb. 9										
10:30AM	9900	10950	12750	11950	10400	6750	3550	2600		
10:45AM	9200	10900	12800	12450	11900	9250	4750	3050		
11:00AM	8200	10050	12850	11850	10700	7100	4500	3300		
11:15AM	12400	12100	11750	11900	11350	6950	4750	3650		
Feb. 24										
11:00AM	5	4	5	3	5	7	5	5		
11:15AM	5	5	5	7	5	4	5	3		
11:30AM	5	3	5	3	3	5	5	5		
11:45AM	3	5	5	2	6	3	5	3		
12:00AM	5	3	3	2	4	3	5	5		
Mar. 3										
4:15PM	9800	9500	8750	4000	1350	580	180	170		
4:30PM	10000	8700	7300	3100	950	300	160	180		
4:45PM	6000	9350	8450	4300	1100	500	280	200		
Mar. 10										
10:00AM	8500	9400	9000	7700	3100	1080	840	800		

Table 3 (continued) Tide cycle: One to two hours after high tide.

Parts per million

Date	Position									
1937	1	2	3	4	5	6	7	8	9	10
Mar. 10										
10:15AM	8800	9900	8400	7200	3300	820	1100	780		
10:30AM	7000	6000	3400	2100	900	460	400	390		
10:45AM	6100	3900	2800	1920	490	440	400	390		
Mar. 17										
3:30PM	15	17	17	15	17	17	17	17		

Table 4 Tide cycle: two to three hours after high tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Sept.30										
11:30AM		17000	16850	16650	16550	16000	15600	16350	15950	
11:45AM		15700	16000	16600	16600	16600	16700	16600	15650	
12:00AM		16700	16800	16700	16200	15600	14950	12400	13500	
12:15PM	16500	16650	16750	16550	16500	15650	15450	16300	13500	
Oct. 1										
12:45PM		15050	14900	14700	14700	14850	13100	12300		
1:00PM	13100	13600	13600	13200	13250	12850	11900	10000		
1:15PM	11900	12100	12000	11700	11500	11300	10900	10500		
Oct. 17										
2:00PM	16800	16650	16700	16600	16750	16700	16400	16150	16150	
2:30PM		16600	16750	16500	16450	16400	16400	15850		
Oct. 18										
2:30PM	9400	6800	4500	3300	900	900	700	800		
2:45PM	1200	1250	1400	1350	1150	850	800	750		
3:00PM		850	1250	1200	1200	1200	1050	950		
3:15PM	1350	1350	1500	1400	1350	1150	1150	1050		
3:30PM	1250	1250	1300	1300	1200	1100	1150	1000		
Oct. 19										
3:30PM	4050	1600	1400	950	700	600	480	400		
4:00PM		1650	1650	1500	1000	900	800	700		
Oct. 27										
10:00AM	9000	11200	9800	4500	2450	1400	1150	1100		
10:30AM		3200	2950	2450	2200	1300	850	650		
Oct. 30										
12:15PM		1000	1100	1050	1000	850	600			

Table 4 (continued) Tide cycle: two to three hours after high tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Oct. 31										
1:30PM	7150	5600	4950	4450	3900	3050	2500	2150		
2:00PM	3600	4900	4750	4250	3950	3150	2450	1800		
Nov. 3										
4:00PM	2800	2400	6000	5400	4100	3400	2900	2700		
4:30PM	7000	8300	5400	4900	3700	2700	2600	2200		
Nov. 13										
12:30PM		4700	2900	2300	1800	1500	1300	1200		
1:00PM		2900	2950	2650	2000	1500	1500	1500		
1:30PM	2400	2500	2700	2250	1750	900	1200	1050		
Nov. 14										
1:00PM		490	500	510	480	420	400			
1:30PM		500	510	510	460	430				
Nov. 24										
8:45AM	11350	10800	9580	6650	5700	5100	4700			
9:00AM	8100	7600	7250	7050	5800	4700	4000			
9:15AM	7200	7450	7350	6350	5550	4400	3750			
9:30AM	8200	8200	7400	6400	5500	4500	4050			
Dec. 15										
1:45PM	163	191	185	103	32	23	21	23		
2:00PM	123	131	123	93	44	29	19	23		
2:15PM	157	159	167	107	51	39	23	21		
2:30PM	235	235	199	53	33	17	25	13		
Dec. 17										
3:00PM	850	950	800	600	420	300				
3:15PM	900	1000	800	1000	600	360	250	180		

Table 4 (continued) Tide cycle: two to three hours after high tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Dec. 17										
3:30PM	850	950	1050	750	600	440	390	300		
3:45PM	550	600	550	370	280	230	180	130		
4:00PM	150	800	750	600	600	450	330	190		
1937										
Feb. 9										
11:30AM	3900	5200	4700	4100	3400	1800	1200	1000		
11:45AM	2750	3300	3800	3500	2750	2100	1850	1250		
12:00AM	3400	3250	3050	2600	2250	1350	1200	1000		
Mar. 10										
11:00AM	6400	5100	2900	2220	1110	460	400	380		
11:15AM	1200	900	900	600	540	460	380	380		

Table 5 Tide cycle: three to four hours after high tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Oct. 17										
3:00PM	15000	15250	15450	14800	14450	13950	13950	13900		
Oct. 18										
3:45PM	1050	1100	1050	1050	1000	950	950	900		
4:00PM		1050	1050	1050	1050	1050	1050	1000		
4:15PM	1050	1050	1100	1100	1100	1150	1050	1100		
4:30PM	1000	1100	1100	1050	1050	1050	1000	950		
Oct. 27										
11:00AM		2400	2600	2500	2100	1600	1200	900		
11:30AM		2900	2600	2700	2500	1950	1150	700		
12:00AM		2900	2700	2700	2400	2400	2050	1650		
Nov. 3										
5:00PM	4600	4900	5000	3800	3000	2150	1950	1800		
Nov. 14										
2:00PM		490	480	480	460	440	260			
2:30PM		280	300	290	250	220	180			
Nov. 24										
9:45AM	8500	8100	6600	6050	5150	4350	3950			
10:00AM	5750	5600	5750	5350	4850	4250	3600			
10:15AM	5700	5600	5600	4900	4550	4300	3750			
10:30AM	5550	5500	5600	5600	5100	4150	4050			

Table 6 Tide cycle: four to five hours after high tide.

Parts per million

Date 1936	Position 1	2	3	4	5	6	7	8	9	10
Sept.24										
9:00AM	9900	8700	6200	3800	4450	3350	3000	2000		
9:15AM		4900		4000	3400	3300	3150	2150		
9:30AM	4200	3900	4300	3450	3350	3050	2850	2450		
9:45AM	7850	6300	5400	4350	3700	3200	3000	2350		
Oct. 22										
8:00AM	310	300	310	310	300	300				
Oct. 23										
9:00AM	480	480	460	460	460	440	450			
Oct. 24										
10:00AM	1330	1250	1290	1270	1220	1150	1130			
Oct. 25										
11:00AM	2000	1900	1950	1850	1600	1800	1700			
Oct. 27										
12:30PM		2350	2350	2400	2200	1700	800	1550		
Nov. 14										
3:00PM		270	280	270	240	220	160			
3:30PM			9	9	9	9	9			
4:00PM		11	11	11	8	9	9			
Dec. 3										
7:00AM		4300	4400	4300	4200	4000	3850			
Dec. 8										
11:30AM	1750	1700	1700	1800	1700	1500	1450			
11:45AM	1850	1900	1800	1900	1700	1700	1450			
12:00AM	1750	1800	1800	1800	1700	1600	1450			
Dec. 22										
10:00AM	5	7	7	13	7	7	9			
10:15AM	7	6	8	7	13	7	7			

Table 6 (continued) Tide cycle: four to five hours after high tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Dec. 22										
10:30AM	7	7	9	5	7	7	6			
Dec. 24										
12:00AM	5	7	5	5	5	6	6			
12:15PM	5	7	5	5	6	5	5			

Table 7 Tide cycle: one hour before to low tide

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Sept.24										
10:00AM	5250	4750	4300	3700	3500	2750	2800	2650		
10:15AM	5550	4750	4450	4300	3200	2850	2750	2550		
10:30AM	6200	4800	4500	4150	3550	3050	2700			
10:45AM	6300	4800	4750	4050	3100	2850	2650			
11:00AM	6500	4000	3900	3400	2800	2600	2300			
Sept.27										
1:00PM	3500	3600	3800	3500	3600	3500				
1:15PM	3900	3900	3800	3500	3300	3400				
1:30PM		3900	3500	3150	3200	2900	2900			
1:45PM	2950	3150	2900	2850	2650	2500	2600			
Oct. 12										
2:30PM	2150	2200	2150	2150	2150	2050	2150			
2:45PM	2450	2550	2550	2450	2000	1900	1900			
Oct. 22										
8:30AM	270	270	260	270	250	260	240			
9:00AM	190	190	190	190	200	180	170			
Oct. 23										
9:30AM	450	460	460	460	460	450	450			
10:00AM	400	400	410	400	380	380	370			
10:30AM	270	280	280	270	270	240	230			
Oct. 24										
10:30AM	1150	1150	1100	1100	1090	1080	1070			
11:00AM	1000	950	1000	950	930	950	930			
11:30AM	900	900	900	890	870	800	780			
Oct. 25										
11:30AM	1750	1800	1700	1700	1550	1500	1350			

Table 7 (continued) Tide cycle: one hour before to low tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Oct. 25										
12:00AM		1400	1350	1350	1300	1200	1100			
Oct. 26										
12:30PM	500	530	530	540	520	510	460			
1:00PM	520	510	510	500	510	500	510			
Nov. 4										
8:30AM	64	61	63	64	48	28	24			
Nov. 14										
4:30PM		8	10	8	9	8	8			
5:00PM		9	9	9	7	9	9			
Dec. 1										
6:00AM	9350	9400	4500	2550	1750	1750				
Dec. 3										
7:15AM		4550	4500	4500	4400	4000	3900			
7:30AM	4700	4500	4500	4400	4200	4000	3900			
7:45AM	4500	4500	4300	4250	4000	3950	3800			
8:00AM	4500	4500	4500	4200	4200	4000	4000			
Dec. 8										
12:15PM	1850	1800	1700	1800	1700	1600	1500			
12:30PM	1500	1600	1550	1550	1400	1350	1150			
12:45PM	1600	1600	1500	1600	1400	1400	1300			
1:00PM	1500	1550	1550	1500	1500	1400	1300			
Dec. 22										
10:45AM	6	7	7	7	7	6	6			
11:00AM	7	9	7	7	6	9	4			
11:15AM	7	7	5	7	7	7	7			
11:30AM	7	3	5	7	5	11	9			

Table 7 (continued) Tide cycle: one hour before to low tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Dec. 24										
12:30PM	6	7	5	6	6	6	6			
12:45PM	6	5	6	6	6	6	6			
1:00PM	5	6	5	6	5	5	6			
1:15PM	6	6	6	5	5	5	5			
1:30PM	6	6	4	6	5	6	6			
1937										
Jan. 7										
12:30PM	4	5	5	6	6	4	5			
12:45PM	5	5	5	4	5	5	5			
1:00PM	5	6	5	4	5	5	5			
1:15PM	6	6	4	7	4	4	5			
1:30PM	5	4	4	5	5	4	5			

Table 8 Tide cycle: low tide to one hour after.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Sept.24										
11:15AM	6100	4350	3950	3650	2800	2550	2200			
11:30AM	6350	4650	3800	2650	2300		1800			
11:45AM	7400	5200	4100	3100	2400	2400	1900			
12:00AM		7400	4550	3450	2400	2200	2000			
Sept.27										
2:00PM	3200	3350	2950	2600	2550	2550	2500			
2:15PM	4100	3950	3250	3000	2500	2600	2500			
2:30PM		3850	3250	3000	2800	2500	2450			
2:45PM	5800	5200	3900	3100	2800	2650	2500			
Oct. 12										
3:00PM	1950	2000	2100	2000	1900	1850	1850			
3:15PM		2000	1900	2000	1700	1700	1600			
3:30PM	1800	1800	1700	1600	1500	1450	1500			
3:45PM	1950	1850	1800	1650	1350	1350	1350			
Oct. 17										
5:30AM	6050	4250	3500	3200	2900	2700	2250			
6:00AM	8150	6850	3950	3150	2950	2550	2350			
Oct. 22										
9:30AM	130	130	130	130	110	101	73			
10:00AM	86	89	93	87	76	78	59			
Oct. 23										
11:00AM	190	190	190	180	170	160	160			
Oct. 24										
12:00AM	700	700	700	700	690	680	700			
Oct. 25										
12:30PM	950	1000	1000	950	900	850	850			

Table 8 (continued) Tide cycle: low tide to one hour after.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Oct. 25										
1:00PM	750	800	800	720	700	560	610			
Oct. 26										
1:30PM	450	440	450	450	440	420	380			
2:00PM	400	410	390	400	400	380	370			
Nov. 4										
8:45AM	49	49	47	40	36	27	20			
9:00AM	42	40	38	34	28	25	15			
9:15AM	31	31	29	27	19	17	14			
9:30AM	12	11	11	11	12	13	12			
Dec. 1										
6:15AM	9650	9000	4200	2600	1800	1750				
6:30AM	9450	9250	4700	3900	1950	1850				
6:45AM	9150	8400	4400	3650	2300	1800				
7:00AM	9500	8700	5900	3700	2000	1900				
7:15AM	9400	9200	7500	3800	1900	1800				
Dec. 3										
8:15AM		4400	4500	4300	4000	3900	3800			
8:30AM	5400	4300	4100	4150	3650	3600	3400			
8:45AM		4300	4300	4100	4000	3500	3400			
9:00AM	4100	4100	4000	4100	3600	3350	3450			
Dec. 8										
1:15PM	1200	1200	1200	1150	1050	900	700			
1:30PM	1300	1100	1200	1100	1000	1000	1000			
1:45PM	1300	1100	1200	1200	1000	1000	1000			
2:00PM	1100	1150	1150	1100	1000	900	800			

Table 8 (continued) Tide cycle: low tide to one hour after.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Dec. 22										
11:45AM	5	5	5	5	5	6	6			
12:00AM	6	6	6	6	5	6	5			
12:15PM	6	6	6	5	6	5	6			
12:30PM	5	5	6	6	5	6	5			
Dec. 24										
1:45PM		8	6	7	7	5	6			
2:00PM	5	6	5	5	6	5	6			
2:15PM	5	5	6	5	5	5	5			
2:30PM	6	5	5	6	5	5	5			
1937										
Jan. 7										
1:45PM	7	4	4	4	5	6	4			
2:00PM	4	6	5	4	5	5	5			
2:15PM	6	5	5	5	5	4	6			
2:30PM	4	6	4	6	4	5	4			

Table 9 Tide cycle: one to two hours after low tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Sept.24										
12:15PM	8500	8200	4850	4250	2800	2450	2050			
12:30PM	14650	14050	7750	4600	3600	2500	2000			
12:45PM	13300	13200	12950	5550	3700	2800	2400			
1:00PM	12700	12750	12250	11400	4600	2550	2300			
Sept.27										
3:00PM	7200	6250	4100	3300	2850	2850	2700			
3:15PM	7800	7600	4500	3700	2900	2800	2600			
3:30PM	8300	8300	7800	6950	4200	2850	2600			
Oct. 12										
4:00PM	1900	1850	1800	1550	1200	1150	1200			
4:15PM	1800	1750	1700	1250	1050	1000	1100			
4:30PM	1600	1700	1600	1300	1200	900	900			
4:45PM	1400	1400	1350	1250		900	900			
Oct. 17										
6:30AM	6400	6750	4150	3650	3150	2800	2200			
7:00AM	12000	12200	10900	4450	3350	2850	2700			
Oct. 22										
10:30AM	95	100	91	75	58	51	43			
11:00AM	88	90	97	64	39	32	30			
Oct. 23										
11:30AM	100	92	100	91	81	79	83			
12:00AM	79	73	76	83	54	48	44			
Oct. 24										
12:30PM	620	600		590	570	560	520			
1:00PM	510	520	510	480	450	440	380			

Table 9 (continued) Tide cycle: one to two hours after low tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Oct. 25										
1:30PM	760	760	770	700	610	530	440			
2:00PM	1110	770	600	590	500	310	150			
Oct. 26										
2:30PM	280	270	230	280	280	260	240			
3:00PM	200	209	200	180	200	160	120			
Nov. 4										
9:45AM	12	12	12	12	13	12	12			
10:00AM	15	14	16	9	11	12	12			
10:15AM		13	13	15	14	13	12			
10:30AM	16	16	15	13	11	60	11			
Dec. 1										
7:30AM	7600	7550	7450	7000	5750	4450				
7:45AM		7700	7500	7100	5900					
8:00AM	7200	7050	6850	6700	5500	4500				
8:15AM	7100	7000	6500	6400	5150	4250				
Dec. 3										
9:15AM	4200	4200	4000	3800	3700	3400	3300			
9:30AM	4000	4100	4100	3600	3450	3450	3250			
9:45AM	4250	4000	4100	4000	3500	3300	3200			
10:00AM		4400	3550	3050	2700	2700	2600			
Dec. 8										
2:15PM	1150	1150	1200	900	900	800	650			
2:30PM	1200	1150	1000	850	750	700	650			
2:45PM	1150	1050	950	850	800	650	700			
3:00PM	1750	1400	1000	850	750	700	600			

Table 9 (continued) Tide cycle: one to two hours after low tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Dec. 22										
12:45PM	4	5	7	5	5	5	4			
1:00PM	6	5	5	5	5	4	4			
1:15PM	6	4	7	5	5	4	6			
Dec. 24										
2:45PM	5	5	5	5	5	5	5			
3:00PM	6	4	5	5	5	4	5			
3:15PM	4	5	6	5	5	5	3			
1937										
Jan. 7										
2:45PM	5	4	5	4	5	4	5			
3:00PM	7	5	5	6	4	7	4			
3:15PM	6	4	5	4	4	5	4			

Table 10 Tide cycle: two to three hours after low tide.

Parts per million

Date 1936	Position 1	2	3	4	5	6	7	8	9	10
Sept.23										
12:30PM	2500	9850	10200	9800	7200	4700	2600	2000		
12:40PM		9900	10100	9900	8200	6200	4400	3700		
12:50PM	9700	9500	8500	8300	7000	5600	3100	3600		
12:55PM		9500	9550	9250	8700	6100	4800	3900		
1:00PM	3700	9600	9700	9700	9300	8850	6050	4450		
1:05PM	9250	9400	9700	9500	9000	6300	5200	3600		
Sept.24										
1:15PM			12050	11600	4600	2450	2200			
1:30PM		11850	11700	10550	5000	3250	2300	2000		
Sept.27										
3:45PM	7400	7250	6500	5700	4150	3750	2900			
4:00PM	6800	7100	6800	6500	5500	3950	3050			
4:15PM	6200	6700	6500	5900	5100	4300	3600			
4:30PM	6600	6600	6150	5500	4800	4250	3450			
Oct. 12										
5:00PM	1300	1200	1200	1000	900	800	700			
5:15PM	1700	1300	1000	950	850	750	750			
5:30PM	3000	2600	1150	950	950	800	750			
Oct. 17										
7:30AM	10650	10750	10500	9800	9150	7400	4600	2750		
8:00AM	9750	10300	9800	7600	5850	4850	4350	3150		
Oct. 22										
11:30AM	162	170	120	132	39	38	35			
12:00AM		5100	2700	3400	46	34	30			

Table 10 (continued) Tide cycle: two to three hours after low tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Oct. 23										
12:30PM	261	220	190	140	100	52	30			
1:00PM	3000	2850	1880	190	42	40	39			
Oct. 24										
1:30PM	1130	850	510	420	400	400	400			
2:00PM	4950	5050	4800	3450	530	420	450	400		
Oct. 25										
2:30PM	5300	4750	640	550	380	340	180			
3:00PM	5300	5400	5400	4900	3250	750	450	320		
Oct. 26										
3:30PM	220	200	200	170	150	160	180			
4:00PM	230	210	190	150	130	119	111			
Nov. 4										
10:45AM	82	50	37	29	21	19	14			
11:00AM	1200	1230	430	100	21	18	18			
11:15AM		1650	1490	460	80	33	22	27		
11:30AM	2000	1900	1900	1650	650	80	19	21		
Dec. 1										
8:30AM	7300	6350	6050	5100	4200	3300				
8:45AM	8900	8450	8700	7350	5950	4750				
9:00AM		8900	7800	7000	5000	4250				
9:15AM	9250	9250	9100	6950	5650	5050				
9:30AM	5750	8200	7350	5550	5350	4650				
Dec. 3										
10:15AM	4700	3800	3500	3000	2600	2500	2700			
10:30AM		4050	3850	3500	2700	2600	2600			
10:45AM	6800	6300	5650	3950	3100	3100	2700			

Table 10 (continued) Tide cycle: two to three hours after low tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Dec. 3										
11:00AM	6800	6100	5900	4200	3200	2700	2600			
Dec. 8										
3:15PM	6800	5350	1450	1000	800	700	700			
3:30PM	6400	4850	1600	1100	850	750	700			
3:45PM	6000	6250	6400	4800	1600	900	700			
4:00PM	5950	6050	5850	4200	1850	950	750			
Dec. 22										
1:30PM	5	5	6	5	5	5	5			
1:45PM	5	5	5	5	6	6	5			
2:00PM	4	5	5	5	4	5	4			
2:15PM	5	5	5	3	5	4	4			
Dec. 24										
3:30PM	5	6	5	5	4	5	4			
3:45PM	4	3	5	4	5	6	5			
4:00PM	5	4	4	6	5	6	5			
4:15PM	5	5	5	6	5	5	6			
1937										
Jan. 7										
3:30PM	4	4	4	4	5	4	4			
3:45PM	5	5	5	6	5	5	5			
4:00PM	6	5	6	6	2	5	4			

Table 11 Tide cycle: three to four hours after low tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Sept.23										
1:08PM		9300	9500	9500	9200	7700	5300	3900		
1:12PM	9200	9500	9500	9500	8600	6400	4750	3650		
1:14PM	9950	10000	9800	9700	8800	7500	5000	3700		
1:16PM	9800	10200	9900	9900	9600	7150	4750	3600		
1:18PM					8300	9200	4600	3700		
1:20PM					9000	6900	4200	3300		
Oct. 17										
8:30AM	9100	9450	8600	6450	4950	4600	4350	4000		
9:00AM	10350	10550	11100	8000	7100	6800	6400	5250		
Oct. 22										
12:30PM	4350	4400	3850		85	38	31			
Oct. 23										
1:30PM	3400	3300	3200	2800	2250	190	58			
Oct. 24										
2:30PM	4400	5050	4450	4400	3450	2450	840	1340		
Oct. 25										
3:30PM		4950	4900	4850	3500	1850	700	500		
Oct. 26										
4:30PM	610	380	280	190	150	140	140			
5:00PM	1170	1060	440	270	160	160	150			
Nov. 4										
11:45AM	2700	2450	2550	2350	1700	600	49	49		
12:00AM	1500	2500	2400	1400	1000	200	57	53		
12:15PM		2400	2300	2400	1100	140	160	220		
12:30PM		2400	2000	1800	1200	600	103	400		
Dec. 1										
9:45AM	9000	9200	8900	6500	5550	4850				

Table 11 (continued) Tide cycle: three to four hours after low tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Dec. 1										
10:00AM		11300	11100	11000	8900	7700				
10:15AM	11700	11250	10900	10250	9250	7050				
10:30AM	11450	11350	11050	10800	9100	7500				
Dec. 3										
11:15AM		6000	6200	4500	3800	3100	2800			
11:30AM		6400	6000	5250	3850	3100	2800			
Dec. 22										
2:30PM	5	5	5	5	5	5	5			
Dec. 24										
4:30PM	4	5	5	5	4	5	5			
Dec. 31										
10:30AM	7	7	7	7	8	7	8	6		
10:45AM	8	8	8	7	7	7	7	7		
1937										
Mar. 3										
1:00PM	3500	3000	2700	2400	1500	820	360	320		

Table 12 Tide cycle: four to five hours after low tide.

Parts per million

Date	Position									
1936	1	2	3	4	5	6	7	8	9	10
Sept.30										
8:30AM		15300	15700	15800	15400	14400	9650	12250		
Oct. 17										
9:30AM	12200	12100	12300	12600	11600	11500	10200	7450		
10:00AM	15200	14900	15000	15100	14400	14000	14000	13900		
Nov. 3										
12:30PM	9400	9300	9700	9400	7300	4400	3000	2100		
Nov. 13										
8:30AM	2550	2550	7300	7000	3450	1100	750			
Dec. 15										
10:00AM	11	45	21	13	11	11	11	9		
10:15AM	95	85	78	82	78	84	77	67		
Dec. 17										
11:30AM	8950	9550	9750	6500	5350	3750	1700	1200		
Dec. 29										
9:30AM	2500	2550	2850	700	550	270	240	230		
9:45AM	2100	2500	2550	1850	700	550	450	330		
10:00AM	3100	3200	1400	3100	400	500	320	360		
Dec. 31										
11:00AM	7	7	7	7	8	7	7	8		
11:15AM	7	7	8	8	7	6	7	7		
11:30AM	14	17	15	16	16	15	14	14		
11:45AM	280	280	240	140	36	28	16	14		
1937										
Jan. 12										
9:00AM	720	770	740	540	100	330	18	15		
9:15AM	750	780	710	630	350	40	23	16		

Table 12 (continued) Tide cycle: four to five hours after low tide.

Parts per million

Date	Position									
1937	1	2	3	4	5	6	7	8	9	10
Jan. 14										
10:00AM		1900	1480	730	510	133	62	42		
10:15AM	2000	1900	1900	1250	440	104	51	44		
10:30AM	2750	2400	1400	1100	520	130	55	47		
Jan. 27										
9:30AM	3	4	3	3	3	4	4	3		
9:45AM	3	3	3	3	4	4	3	3		
Jan. 29										
11:00AM	640	640	700	600	340	160	28	9		
11:15AM	290	630	420	360	140	11	14	9		
Feb. 24										
8:30AM	5	5	5	5	5	4	5	6		
8:45AM	3	5	5	5	5	4	7	5		
Mar. 3										
1:15PM	3800	3200	2800	2800	2100	960	700	460		
1:30PM	3700	3600	2900	3100	2550	1240	800	480		
1:45PM	3950	3100	3400	3400	2300	940	530	550		
2:00PM	3500	3300	3200	3300	2650	940	610	500		
Mar. 10										
7:30AM	8950	8100	8000	3500	1100	660	560	540		
Mar. 17										
12:30PM	11	13	13	19	13	11	13	13		
12:45PM	13	13	11	11	13	11	11	11		
1:00PM	13	11	11	9	11	15	13	11		
1:15PM	13	11	13	13	17	13	13	13		

MIMEOGRAPHED BULLETINS OF THE CONNECTICUT GROUND WATER SURVEY

S-1 The Salinity of the Connecticut River, October 1, 1934 to September 30, 1937.

Part I - Text, 6 maps, 2 illustrations, 74 pages, 1938.

Parts II and III - Tabulations of chlorides of samples collected from the Connecticut river at Saybrook Highway bridge, 323 pages, 1938.

GW-1 Record of wells, springs and ground-water levels in the towns of Bridgeport, Easton, Fairfield, Stratford and Trumbull, Connecticut. (242 pages, 5 maps, 1938.)

GW-2 Record of wells, springs and ground-water levels in the towns of Branford, Chester, Clinton, Essex, Guilford, Haddam, Killingworth, Madison, North Branford, Old Saybrook, Saybrook and Westbrook, Connecticut. (340 pages, 12 maps, 1938.)

GW-3 Record of wells, springs and ground-water levels in the towns of Bethany, East Haven, Hamden, Milford, North Haven, Orange, West Haven and Woodbridge, Connecticut. (247 pages, 8 maps, 1938.)

GW-4 Record of wells, springs and ground-water levels in the towns of Berlin, Cromwell, Durham, Meriden, Middlefield, Middletown, Portland and Wallingford, Connecticut. (170 pages, 8 maps, 1938.)

GW-5 Record of wells, springs and ground-water levels in the towns of Colchester, East Haddam, East Hampton, East Lyme, Lyme, New London, Old Lyme and Waterford, Connecticut. (314 pages, 8 maps, 1938.)

GW-6 Ground-water levels in north-central Connecticut, October 1, 1934 to December 31, 1937. (212 pages, 1938.)